

EXHIBIT D1

UNCLASSIFIED



FBI Laboratory

2501 Investigation Parkway
Quantico, Virginia 22135

REPORT OF EXAMINATION

To: Boston

Date: May 23, 2014

Case ID No.: 415M-BS-2814367

Lab No.: 130416021 AAR
130418012 AAR
130420100 AAR
130421100 AAR
130422100 AAR
130422101 AAR
130423010 AAR
130423011 AAR
130423012 AAR
130424003 AAR
130425018 AAR
130427100 AAR
130427101 AAR
130429002 AAR
130429100 AAR
130503001 AAR
130507007 AAR
130507008 AAR
130508016 AAR
130726007 AAR
130813015 AAR
130816005 AAR

Reference: See below

Your No.:

Title: UNSUBS;
4/15/2013 Boston Marathon Bombing
IT

Date specimens received: See below

The following specimens were received and examined in the Explosives Unit.

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THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 19, 2013 AND RECEIVED INTO THE LABORATORY ON THE FOLLOWING DATES; APRIL 16, 2013, APRIL 17, 2013 AND APRIL 18, 2013. THE ITEMS WERE ASSIGNED LABORATORY NUMBER 130416021 AND EXAMINED IN THE EXPLOSIVES UNIT:

THE FOLLOWING ITEMS WERE RECEIVED AT THE LABORATORY ON APRIL 16, 2013:

BOYLSTON STREET, SCENE A [REDACTED]

- Q1 One (1) pair of pants (Your S1, E5180225)
- Q1.1 Belt from Q1 (Your S1, E5180225)
- Q2 Coat (Your S2, E5180224)
- Q2.1 Belt (Your S2, E5180224)
- Q2.2 Pants (Your S2, E5180224)
- Q2.2.1 Keys (Your S2, E5180224)
- Q2.3 Jacket (Your S2, E5180224)
- Q3 Cell phone (Your S3, E5180229)
- Q4 Swabs (Your S4, E5180227)
- Q5 Swab from window at LensCrafters (Your S5, E5180222)
- Q6 Strand of green insulated wire (Your S6, E5180226)
- Q7 C-size battery (Your S7, E5180228)
- Q8 Metal BBs with unknown material and pink material (Your S8, E5180220)
- Q8.1 Sampling of unknown material from Q8 (Your S8, E5180220)
- Q9 Piece of metal (Your S9, E5180223)
- Q10 Round metal object (Your S10, E5180221)

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BOYLSTON STREET, SCENE B [REDACTED]

- Q11 Black backpack from street (Your S2001, E5180255)
- Q11.1 Paper from Q11 (Your S2001, E5180255)
- Q11.2 Debris from Q11 (Your S2001, E5180255)
- Q11.2.1 Hair from Q11.2 (Your S2001, E5180255)
- Q12 Metal pieces (Your S2002, E5180252)
- Q13 BB and metal fragment (Your S2003, E5180256)
- Q14 Metal piece (Your S2004, E5180249)
- Q15 Metal piece (Your S2005, E5180254)
- Q16 Metal piece (Your S2006, E5180257)
- Q16.1 Debris from Q16 (Your 2006, E5180257)
- Q16.1.1 Hair from Q16.1 (Your 2006, E5180257)
- Q17 iPhone 5 in case (Your S2007, E5180248)
- Q18 Swab of metal gate (Your S2008, E5180250)
- Q19 Cotton swab from base of tree (Your S2009, E5180251)
- Q20 Cotton swab of Forum mailbox (Your S2010, E5180253)

FROM HOSPITAL

- Q21 Evidence bag from [REDACTED] (Your H45, E5180231)
- Q21.1 Hospital transport bag from [REDACTED] (Your H45, E5180231)
- Q21.2 Paper with trace from [REDACTED] (Your H45, E5180231)
- Q21.3 Paper with trace from [REDACTED] (Your H45, E5180231)
- Q22 One (1) pair of gray shorts from [REDACTED] (Your H45A, E5180234)

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- Q23 One (1) blue t-shirt from [REDACTED] (Your H45B, E5180232)
- Q23.1 One (1) pair of navy blue boxers from [REDACTED] (Your H45B, E5180232)
- Q24 One (1) gray long sleeve thermal shirt from [REDACTED] (Your H45C, E5180233)
- Q25 Pellets from belongings bag of [REDACTED] (Your H45D, E5180235)
- Q26 Pellets from belongings of [REDACTED] (Your H45E, E5180236)
- Q27 Verizon LG cell phone from [REDACTED] (Your H45F, E5180230)
- Q28 Shoes and trace paper (Your H100, E5180241)
- Q29 One (1) white shirt from [REDACTED] (Your H100A, E5180239)
- Q29.1 One (1) sock from [REDACTED] (Your H100A, E5180239)
- Q29.2 One (1) sock from [REDACTED] (Your H100A, E5180239)
- Q30 One (1) pair of pants from [REDACTED] (Your H100B, E5180244)
- Q31 Piece of debris from [REDACTED] (Your H100C, E5180246)
- Q32 Five (5) evidence bags, paper with trace evidence, FBI receipt for property, and one (1) pair of sneakers from [REDACTED] (Your H123, E5180237)
- Q33 One (1) pair of dark pants from [REDACTED] (Your H123A, E5180240)
- Q34 One (1) black shirt and one (1) pair of socks from [REDACTED] (Your H123B, E5180238)
- Q35 One (1) loose pellet from [REDACTED] (Your H123C, E5180235)
- Q36 Pants, original packaging and trace paper (Your H142, E5180243)
- Q37 One (1) black shirt, one (1) green jacket (Your H142A, E5180242)
- Q38 Three (3) BBs and two (2) metal nails (Your H142B, E5180247)

THE FOLLOWING ITEMS WERE RECEIVED AT THE LABORATORY ON APRIL 17, 2013:

BOYLSTON STREET, SCENE A [REDACTED]

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Q39 Wires and circuit board (Your S42, E5180270)

Q39.1-Q39.2 Tape from Q39 (Your S42, E5180270)

Q40 Debris with BB's (Your S43, E5180271)

BOYLSTON STREET, SCENE B

Q41 Electrical components (Your S2024, E5180259)

Q 42 Device component and battery (Your S2027, E5180260)

Q42.1-Q42.6 Tape from Q42 (Your S2027, E5180260)

Q42.6.1-Q42.6.6 Hairs from Q42.1-Q42.6 (Your S2027, E5180260)

Q42.7 Tape from Q42 (Your S2027, E5180260)

Q43 Circuit board (Your S2029, E5180261)

Q44 Metal device component (Your S2031, E5180262)

Q44.1-Q44.2 Tape from Q44 (Your S2031, E5180262)

Q45 Plastic debris (Your S2032, E5180264)

Q46 Battery (Your S2035, E5182065)

Q47 Battery (Your S2037, E5180266)

Q48 Battery (Your S2060, E5180263)

Q49 BBs, nails, insulated wire, piece of metal, fabric, plastic beads, and white caulk material (Your S2065, E5180268)

Q49.1 Two (2) pieces of wire, two(2) pieces of black plastic, and one (1) piece of metal (Your S2065, E5180268)

Q50 Wires and connector (Your S2078, E5180267)

Q51 Piece of green insulated wire (Your S2079, E5180269)

Q52 Electrical components (Your S2099, E5180258)

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Q52.1-Q52.5 Tape from Q52 (Your S2099, E5180258)

Q52.6 One (1) hexagonal shaped piece of unknown material (Your S2099, E5180258)

THE FOLLOWING ITEMS WERE RECEIVED AT THE LABORATORY ON APRIL 17, 2013:

BOYLSTON STREET, SCENE A

Q53 Pressure cooker bottom metal plate (Your S101, E5180330)

Q53.1 Tape from Q53 (Your S101, E5180330)

Q54 Metal fragments (Your S98, E5180331)

Q55 Control swab (Your S12, E5180273)

Q56 Suit control swab (Your S13, E5180274)

Q57 Suit control swab (Your S14, E5180275)

Q58 Lamp post bottom swab (Your S15, E5180276)

Q59 Seat of blast swab (Your S16, E5180277)

Q60 Seat of blast swab (Your S17, E5180278)

Q61 Swab from left side of fence (Your S18, E5180279)

Q62 Swab of wall on right side of door (Your S19, E5180280)

Q63 Scraping from seat of blast (Your S20, E5180281)

Q64 Vacuum canister from seat of blast (Your S21, E5180282)

Q65 Vacuum canister from seat of blast (Your S22, E5180283)

Q66 Swab of burned debris (Your S23, E5180284)

Q67 Metal pieces (Your S24, E5180286)

Q68 Miscellaneous debris (Your S25, E5180285)

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- Q68.1 Piece of black plastic (Your S25, E5180285)
- Q69 BBs (Your S26, E5180287)
- Q70 Black fabric (Your S27, E5180288)
- Q71 BBs with glue (Your S28, E5180320)
- Q72 Base of gray screw (Your S29, E5180321)
- Q73 Piece of metal (Your S30, E5180322)
- Q74 Black tape (Your S31, E5180323)
- Q75 Drywall screw (Your S32, E5180324)
- Q76 Black tape (Your S33, E5180325)
- Q77 Black tape (Your S34, E5180394)
- Q78 Piece of metal (Your S35, E5180393)
- Q79 Duct tape (Your S36, E5180392)
- Q80 Silver-colored screw (Your S37, E5180391)
- Q81 Two (2) AA batteries (Your S38, E5180390)
- Q82 Black metal zipper pull (Your S39, E5180389)
- Q83 Piece of metal (Your S40, E5180388)
- Q84 Clear plastic item with red top (Your S41, E5180387)
- Q85 Base of silver-colored screw (Your S44, E5180314)
- Q86 Black tape (Your S45, E5180313)
- Q87 AA battery (Your S46, E5180312)
- Q88 Silver-colored spring (Your S47, E5180311)
- Q89 Rusty nail (Your S48, E5180310)

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- Q90 Gray screw (Your S49, E5180309)
- Q91 Duct tape (Your S50, E5180308)
 - Q91.1 Duct tape (Your S50, E5180308)
 - Q91.2 Duct tape (Your S50, E5180308)
 - Q91.3 Duct tape (Your S50, E5180308)
- Q92 Silver-colored metal fragment (Your S51, E5180307)
- Q93 Piece of white paper (Your S52, E5180306)
- Q94 Gray piece of metal (Your S53, E5180305)
- Q95 Black zipper (Your S54, E5180304)
- Q96 Three (3) BBs (Your S55, E5180297)
- Q97 Two (2) metal staples (Your S56, E5180303)
- Q98 Piece of black plastic (Your S57, E5180302)
- Q99 Black screw (Your S58, E5180301)
- Q100 Gray screw (Your S59, E5180300)
- Q101 Metal fragment with fibers and red stains (Your S60, E5180299)
- Q102 Silver-colored metal fragment (Your S61, E5180298)
- Q103 Silver-colored screw (Your S62, E5180296)
- Q104 One (1) piece of black electrical tape with fibers (Your S63, E5180295)
 - Q104.1 One (1) piece of silver colored duct tape (Your S63, E5180295)
 - Q104.2 One (1) piece of black tape (Your S63, E5180295)
- Q105 Gray drywall screw (Your S64, E5180293)
- Q106 Piece of green insulated wire (Your S65, E5180294)

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- Q107 Piece of black plastic (Your S66, E5180292)
- Q108 Piece of cardboard (Your S67, E5180291)
- Q108.1 One (1) piece of duct tape (Your S67, E5180291)
- Q108.2 One (1) piece of duct tape (Your S67, E5180291)
- Q109 Backpack pieces (Your S91, E5180290)
- Q109.1 Three (3) zipper pulls (Your S91, E5180290)
- Q109.1.1 One (1) zipper pull from Q109.1 (Your S91, E5180290)
- Q109.2 Piece of green insulated wire (Your S91, E5180290)
- Q110 C-cell battery (Your S11, E5180272)

FROM HOSPITAL

- Q111 Gray jacket (Your H190, E5180396)
- Q112 One (1) metal BB (Your H190A, E5180395)

THE FOLLOWING ITEMS WERE RECEIVED AT THE LABORATORY ON APRIL 18, 2013:

BOYLSTON STREET, SCENE B

- Q113 Nokia cell phone (Your S2153, 1B111, E5180398)
- Q114 Plastic tab (Your S2066, E5180372)
- Q115 Battery label (Your S2120, E5180343)
- Q116 Zipper pull tab (Your S2082, E5180358)
- Q117 Wire (Your S2096, E5180354)
- Q118 Zipper pull tab (Your S2101, E5180353)
- Q119 Piece of grey fabric (Your S2119, E5180344)
- Q119.1 Piece of white caulk (Your S2119, E5180344)

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- Q119.2 Grey string material (Your S2119, E5180344)
- Q119.3 Piece of black fabric (Your S2119, E5180344)
- Q120 BB's in unknown substance (Your S2125, E5180341)
- Q120.1 Sampling of unknown material from Q120 (Your S2125, E5180341)
- Q121 Black fabric (Your S2141, E5180316)
- Q122 Electronic component (Your S2056, E5180413)
- Q122.1 Piece of black plastic from Q122 (Your S2056, E5180413)
- Q123 Piece of fabric (Your S2111, E5180347)
- Q124 Backpack pieces (Your S2018, E5180339)
- Q125 Cardboard (Your S2053, E5180375)
- Q125.1 Tape from Q125 (Your S2053, E5180375)
- Q125.2 Hair from Q125-Q125.1 (Your S2053, E5180375)
- Q125.3 Tape from Q125 (Your S2053, E5180375)
- Q125.3.1 Piece of tape from Q125.3 (Your S2053, E5180375)
- Q125.4 Three (3) hexagonal shaped pieces of unknown material (Your S2053, E5180375)
- Q126 Metal fragments (Your S2074, E5180363)
- Q126.1 Piece of paper from Q126 (Your S2074, E5180363)
- Q126.2 Piece of rubber from Q126 (Your S2074, E5180363)
- Q127 Piece of metal (Your S2245, E5180459)
- Q128 Piece of gold-colored metal (Your S2051, E5180378)
- Q129 BBs in unknown material, pink material, and white caulk (Your S2045, E5180379)
- Q129.1-Q129.3 Sampling of unknown material from Q129 (Your S204, E5180379)

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- Q130 Green hobby fuse (Your S2086, E5180356)
- Q130.1 Tape from Q130 (Your S2086, E5180356)
- Q131 Backpack fragments (Your S2143, E5180435)
- Q131.1 Tape from Q131 (Your S2143, E5180435)
- Q132 C-cell battery (Your S2147, E5180434)
- Q133 Two (2) pieces of fabric material (Your S2161, E5180433)
- Q134 Vacuuming of blast site (Your S2057, E5180432)
- Q135 Piece of fabric (Your S2092, E5180440)
- Q136 Electronic connector (Your S2123, E5180439)
- Q137 Zipper pull tab (Your S2138, E5180437)
- Q138 Electrical components and white caulk material (Your S2139, E5180436)
- Q139 Soil from blast seat (Your S2048, E5180431)
- Q139.1 Sampling of unknown material from Q139 (Your S2048, E5180431)
- Q139.2 Sampling of unknown material from Q139 (Your S2048, E5180431)
- Q140 Metal fragments (Your S2049, E5180409)
- Q141 Piece of backpack (Your S2129, E5180438)
- Q142 Button-cell battery (Your S2128, E5180317)
- Q143 Black fabric (Your S2055, E5180411)
- Q144 Piece of dark fabric (Your S2047, E5180406)
- Q145 BB's in unknown substance (Your S2022, E5180332)
- Q145.1 Sampling of unknown material from Q145 (Your S2022, E5180332)
- Q146 Metal piece (Your S2021, E5180333)

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- Q146.1 Tape from Q146 (Your S2021, E5180333)
- Q147 Button-cell battery (Your S2046, E5180377)
- Q148 Unknown pink material (Your S2030, E5180335)
- Q149 BB's, nails, and caulking material (Your S2042, E5180382)
- Q149.1 Sampling of unknown material from Q149 (Your S2042, E5180382)
- Q149.2 Sampling of unknown material from Q149 (Your S2042, E5180382)
- Q150 Fabric with handle (Your S2023, E5180329)
- Q151 Cardboard (Your S2028, E5180334)
- Q151.1 Tape from Q151 (Your S2028, E5180334)
- Q151.1.1 Piece of tape isolated from Q151.1 (Your S2028, E5180334)
- Q151.2 Tape from Q151 (Your S2028, E5180334)
- Q151.2.1 Piece of tape isolated from Q151.2 (Your S2028, E5180334)
- Q152 Piece of zipper and black fabric (Your S2058, E5180430)
- Q153 Piece of green insulated wire (Your S2062, E5180408)
- Q154 Metal fragmentation (Your S2070, E5180366)
- Q155 Plastic sign (Your S2069, E5180371)
- Q156 Clothing (Your S2073, E5180364)
- Q156.1 Pieces of fabric (Your S2073, E5180364)
- Q156.2 BB (Your S2073, E5180364)
- Q157 BB's, nails, fabric, cardboard, rubber band, metal fragmentation, glass, metal charm (Your S2093, E5180355)
- Q157.1 Tape from Q157 (Your S2093, E5180355)
- Q157.2-Q157.4 Sampling of unknown material from Q157 (Your S2093, E5180355)

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- Q158 Fabric fragments (Your S2115, E5180365)
- Q158.1 Tape from Q158 (Your S2115, E5180365)
- Q159 BB's (Your S2044, E5180380)
- Q160 Staple (Your S2064, E5180370)
- Q161 Zipper pull tab (Your S2112, E5180346)
- Q162 Duct tape (Your S2114, E5180345)
- Q162.1 Duct tape (Your S2114, E5180345)
- Q163 Miscellaneous debris (Your S2106, E5180351)
- Q164 Rusty screw (Your S2124, E5180342)
- Q165 Piece of wire (Your S2142, E5180315)
- Q166 Pamphlet "Who Murdered Clarice?" (Your S2105, E5180350)
- Q167 Shirt (Your S2110, E5180348)
- Q167.1 Jacket (Your S2110, E5180348)
- Q167.2 Yellow paper (Your S2110, E5180348)
- Q167.3 Three (3) paper napkins (Your S2110, E5180348)
- Q167.4 Left shoe (Your S2110, E5180348)
- Q167.5 BBs and pieces of metal (Your S2110, E5180348)
- Q167.6 Piece of paper (Your S2110, E5180348)
- Q167.6.1 Tape from Q167.6 (Your S2110, E5180348)
- Q168 Tree (Your S2117, E5180326)

BOYLSTON STREET, SCENE A ([REDACTED])

- Q169 Wire (Your S116, E5180402)

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- Q170 Black fabric (Your S155, E5180468)
- Q171 Five (5) pieces of green insulate wire, two (2) black plastic pieces, and one (1) switch (Your S110, E5180340)
 - Q171.1 Tape from Q171 (Your S110, E5180340)
- Q172 Capacitor (Your S111, E5180397)
- Q173 Black handle (Your S151, E5180464)
- Q174 Metal fragment (Your S89, E5180337)
- Q175 Cloth fragment (Your S88, E5180336)
- Q176 Black fabric fragments (Your S90, E5180338)
- Q177 Piece of green insulate wire (Your S117, E5180403)
- Q178 Circuit board (Your S118, E5180404)
- Q179 Plastic piece (Your S119, E5180405)
- Q180 Metal fragments (Your S150, E5180463)
- Q181 Terminal post (Your S181, E5180466)
- Q182 Rubber fragment (Your S125, E5180451)
- Q183 Burned cardboard fragments and BB (Your S131, E5180454)
 - Q183.1 Tape from Q183 (Your S131, E5180454)
 - Q183.1.1 Hair from specimen Q183.1 (Your S131, E5180454)
 - Q183.1.2 Piece of tape isolated from Q183.1 (Your S131, E5180454)
 - Q183.2 Tape from Q183 (Your S131, E5180454)
- Q184 Black electronic chip (Your S129, E5180453)
- Q185 Piece of cardboard (Your S132, E5180455)

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- Q185.1 Tape from Q185 (Your S132, E5180455)
- Q186 Electronic component (Your S133, E5180456)
- Q187 Piece of wire (Your S135, E5180457)
- Q188 One (1) piece of green insulated wire and two (2) pieces of plastic (Your S136, E5180458)
- Q189 Metal fragment (Your S82, E5180441)
- Q190 Pieces of green insulated wire (Your S84, E5180445)
- Q190.1 Tape from Q190 (Your S84, E5180445)
- Q191 Cardboard (Your S115, E5180448)
- Q191.1 Tape from Q191 (Your S115, E5180448)
- Q192 Green hobby fuse (Your S83, E5180444)
- Q192.1 Tape from Q192 (Your S83, E5180444)
- Q193 Black fabric (Your S85, E5180446)
- Q194 Black piece of fabric (Your S109, E5180447)
- Q195 Pieces of green insulated wire and one (1) red plastic piece (Your S121, E5180449)
- Q195.1 Tape from Q195 (Your S121, E5180449)
- Q195.1.1 Portion of glove (Your S121, E5180449)
- Q196 Metal fragment (Your S122, E5180450)
- Q197 BBs (Your S126, E5180452)
- Q198 Black fabric (Your S102, E5180421)
- Q199 Cardboard pieces (Your S103, E5180415)
- Q199.1-Q199.25 Tape from Q199 (Your S103, E5180415)
- Q199.25.1-Q199.25.2 Hairs from specimens Q199.1-Q199.25 (Your S103, E5180415)

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Q199.26-Q199.27 Cardboard pieces (Your S103, E5180415)

Q199.28- Q199.30 Cardboard pieces (Your S103, E5180415)

Q199.31- Q199.34 Duct tape from Q199 (Your S103, E5180415)

Q200 Pieces of fabric (Your S104, E5180416)

Q201 Black fabric pieces (Your S105, E5180422)

Q202 One (1) C-size battery (Your S80, E5180428)

Q203 Metal fragment (Your S106, E5180424)

Q204 BBs (Your S107, E5180427)

Q205 Metal fragment (Your S78, E5180425)

Q206 Metal fragment (Your S79, E5180419)

Q207 Unknown pink material with BBs attached (Your S114, E5180426)

Q208 Battery wrapper and BB (Your S120, E5180429)

Q208.1 Tape from Q208 (Your S120, E5180429)

Q209 BBs in unknown substance (Your S123, E5180417)

Q209.1 Debris from Q209 (Your S123, E5180417)

Q209.2 Fabric from Q209 (Your S123, E5180417)

Q209.3 Tape from Q209 (Your S123, E5180417)

Q209.4-Q209.5 Sampling of unknown material from Q209 (Your S123, E5180417)

Q210 Battery and metal fragment (Your S124, E5180420)

Q211 Black plastic pieces and capacitor (Your S139, E5180418)

Q211.1 Two (2) black pieces attached with foam tape (Your S139, E5180418)

Q212 Battery terminal (Your S141, E5180423)

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- Q213 BBs (Your S147, E5180460)
- Q214 BBs in unknown substance, cardboard, and pieces of metal (Your S149, E5180462)
- Q214.1-Q214.2 Sampling of unknown material from Q214 (Your S149, E5180462)
- Q215 Green wire piece (Your S152, E5180465)
- Q216 One (1) piece of burned torn leather and one (1) piece of fabric (Your S154, E5180467)
- Q217 Piece of fabric and paper (Your S148, E5180461)

Date specimens received: April 18, 2013, April 19, 2013 and April 20, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 23, 2013 AND RECEIVED INTO THE LABORATORY ON THE FOLLOWING DATES; APRIL 18, 2013, APRIL 19, 2013 AND APRIL 20, 2013. THE ITEMS WERE ASSIGNED LABORATORY NUMBER 130418012 AND EXAMINED IN THE EXPLOSIVES UNIT:

THE FOLLOWING ITEMS WERE RECEIVED AT THE LABORATORY ON APRIL 18, 2013:

BOYLSTON STREET, SCENE B

- Q218 Copper colored metal component (Your S2087, E5182194)
- Q219 Copper colored metal component (Your 2089, E5182189)
- Q220 Metal (Your S2098, E5182201)
- Q221 C – cell battery (Your S2108, E5182195)
- Q222 Two (2) pieces of wire and one (1) metal fragment (Your S2113, E5182206)
- Q223 Fabric (Your S2136, E5182220)
- Q224 Pieces of fabric, one (1) plastic bead, and three (3) nails (Your S2137 E5182216)

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- Q225 BBs, one (1) nail, wire (Your S2171, E5182283)
- Q226 Fabric and red insulated wire (Your S2176, E5182271)
- Q227 Fabric, three (3) BBs, and one (1) nail (Your S2179, E5182291)
- Q227.1 Tape from Q227 (Your S2179, E5182291)
- Q227.1.1 Piece of tape isolated from Q227.1 (Your S2179, E5182291)
- Q228 Debris (Your S2180, E5182324)
- Q229 Plastic, two (2) BBs, pink material (Your S2181, E5182227)
- Q230 One (1) piece of green insulated wire (Your S2182, E5182326)
- Q231 Small piece of clumped wires (Your S2184, E5182278)
- Q231.1 Tape from Q231 (Your S2184, E5182278)
- Q232 Metal (Your S2034, E5182277)
- Q233 Metal (Your S2229, E5182279)
- Q234 Three (3) pieces of green insulated wire (Your S2204, E5182215)
- Q235 Debris (Your S2083, E5182286)
- Q235.1 Piece of green insulated wire from Q235 (Your S2083, E5182286)
- Q236 Wire (Your S2130, E5182317)
- Q237 Three (3) pieces of debris and one (1) LED light (Your S2170, E5182319)
- Q238 Two (2) pieces of plastic (Your S2173, E5182284)
- Q239 One (1) electrical component (Your S2174, E5182323)
- Q240 One (1) piece of green insulated wire and one (1) piece of rubber (Your S2175, E5182288)
- Q241 One (1) piece of green insulated wire and one (1) piece of fabric (Your S2178, E5182327)

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- Q242 One (1) electrical component (Your S2183, E5182321)
- Q243 Six (1) BBs (Your S2228, E5182293)
- Q244 One (1) piece of plastic (Your S2033, E5182287)
- Q245 Two (2) pieces of plastic (Your S2118, E5182191)
- Q246 One (1) zipper pull (Your S2121, E5182190)
- Q247 BB's and nails (Your S2122, E5182204)
- Q248 One (1) zipper pull (Your S2090, E5182188)
- Q249 One (1) zipper pull (Your S2097, E5182203)
- Q250 One (1) piece of wire (Your S2132, E5182231)
- Q251 One (1) piece of white insulated wire (Your S2133, E5182280)
- Q252 One (1) piece of green insulated wire and piece of zipper (Your S2134, E5182230)
- Q253 Four (4) pieces of wire (Your S2192, E5182218)
- Q254 One (1) zipper pull (Your S2197)
- Q255 Fabric and cardboard (Your S2198, E5182222)
- Q255.1 Tape from Q255 (Your S2198, E5182222)
- Q256 Fabric (Your S2149, E5182225)

**THE FOLLOWING SPECIMENS WERE RECEIVED BY THE LABORATORY ON
APRIL 19, 2013:**

MEDICAL EXAMINER'S OFFICE

- Q257 BBs (Your ME3, E5182431)
- Q257.1 Debris (Your ME3, E5182431)
- Q258 BBs (Your ME5, E5182421)

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- Q259 BBs fabric debris (Your ME8, E5182424)
- Q259.1 Debris (Your ME8, E5182424)
- Q260 BBs in unknown material (Your ME9, E5182425)
- Q260.1 Sampling of unknown material from Q260 (Your ME9, E5182425)
- Q261 Debris (Your ME13, E5182299)
- Q262 One (1) BB (Your ME15, E5182301)
- Q262.1 Debris (Your ME15, E5182301)
- Q263 One (1) BB (Your ME16, E5182302)
- Q263.1 Debris (Your ME16, E5182302)
- Q264 BBs (Your ME17, E5182427)
- Q264.1 Debris (Your ME17, E5182427)
- Q264.2 Package of earplugs (Your ME17, E5182427)
- Q265 BBs (Your ME18, E5182428)
- Q265.1 Debris (Your ME18, E5182428)
- Q265.2 Metal fragment (Your ME18, E5182428)
- Q266 BBs (Your ME1, E5182418)
- Q266.1 Nails (Your ME1, E5182418)
- Q266.2 Miscellaneous debris (Your ME1, E5182418)
- Q266.3 Metal fragment (Your ME1, E5182418)
- Q266.4 Swab (Your ME1, E5182418)
- Q267 One (1) BB (Your ME4, E5182420)
- Q267.1 Nail (Your ME4, E5182420)

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- Q267.2 Miscellaneous debris (Your ME4, E5182420)
- Q268 BBs with unknown material and nails (Your ME7, E5182423)
 - Q268.1 Miscellaneous debris (Your ME7, E5182423)
 - Q268.1.1 Tape from Q268.1 (Your ME7, E5182423)
 - Q268.1.1.1 Piece of tape from Q268.1.1 (Your ME7, E5182423)
 - Q268.1.2 Tape from Q268.1 (Your ME7, E5182423)
 - Q268.2 Electronic component (Your ME7, E5182423)
 - Q268.3 Metal fragments (Your ME7, E5182423)
 - Q268.4 Sampling of unknown material from Q268 (Your ME7, E5182423)
 - Q269 BBs and unknown material (Your ME12, E5182298)
 - Q269.1 Two (2) swabs (Your ME12, E5182298)
 - Q269.2 Metal fragments (Your ME12, E5182298)
 - Q269.3 Debris (Your ME12, E5182298)
 - Q269.4 Sampling of unknown material from Q269 (Your ME12, E5182298)
 - Q270 BBs (Your ME19, E5182429)
 - Q270.1 Debris (Your ME19, E5182429)
 - Q270.1.1 Piece of green plastic from Q270.1 (Your ME19, E5182429)

MASS GENERAL HOSPITAL (FROM [REDACTED])

- Q271 Pair of shoes (Your G18, E5182439)
- Q272 Clothing and flowers (Your G19, E5182440)
 - Q272.1 US currency totaling \$0.65 (Your G19, E5182440)
- Q273 Sweatshirt (Your G20, E5182438)

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Q274 Clothing and water bottles (Your G21, E5182437)

BOYLSTON STREET, SCENE B [REDACTED]

Q275 White baseball cap (Your S2277, E5182436)

Q275.1 Hair from Q275 (Your S2277, E5182436)

Q276 Clothing and cardboard (Your S2233, E5182362)

Q276.1 Tape from Q276 (Your S2233, E5182362)

Q277 Swab from grate #1 (Your S2012, E5182259)

Q278 Swab from grate #2 (Your S2013, E5182252)

Q279 Swab from grate #3 (Your S2014, E5182246)

Q280 Scrapings from metal grate (Your S2014, E5182246)

Q281 Swab of mailbox (Your S2017, E5182260)

Q282 Swab of tree (Your S2019, E5182261)

Q283 Black tape (Your S2287, E5182477)

Q284 Wire pieces (Your S2155, E5182256)

Q284.1 Hair from Q284 (Your S2155, E5182256)

Q285 Fabric (Your S2156, E5182257)

Q286 Wires (Your S2206, E5182239)

Q287 Wire (Your S207, E5182235)

Q287.1 Hairs from Q287 (Your S207, E5182235)

Q288 Zipper pull tap (Your S2210, E5182240)

Q289 Wire pieces (Your S2219, E5182251)

Q290 Black rubber piece (Your S2238, E5182364)

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- Q291 Rocks (Your S2282, E5182475)
- Q291.1 Tape from Q291 (Your S2282, E5182475)
- Q292 Fabric pieces, cardboard, BBs, unknown pink material, other unknown debris (Your S2311, E5182473)
- Q292.1 Sampling of unknown material from Q292 (Your S2311, E5182473)
- Q293 Cardboard and debris (Your S2234, E5182359)
- Q293.1-Q293.3 Tape from Q293 (Your S2234, E5182359)
- Q294 Zipper (Your S2237, E5182366)
- Q295 Electronic components and debris (Your S2286, E5182474)
- Q296 Plastic pieces (Your S2302, E5182471)
- Q296.1-Q296.2 Tape from Q296 (Your S2302, E5182471)
- Q297 Black plastic piece (Your S2304, E5182)
- Q298 Wires (Your S2315, E5180499)
- Q298.1 Three (3) pieces of metal (Your S2315, E5180499)
- Q298.2 Two (2) pieces of plastic (Your S2315, E5180499)
- Q299 Black plastic piece (Your S2321, E5180500)
- Q300 Black plastic knob (Your S2285, E5180501)
- Q301 Rocks (Your S2289, E5182476)
- Q301.1-Q301.2 Tape from Q301 (Your S2289, E5182476)
- Q302 Telephone base station pieces (Your S2290, E5180503)
- Q302.1 Two (2) circuit boards (Your S2290, E5180503)
- Q303 C-cell battery (Your S2290, E5180503)
- Q304 Seven (7) keys, car remote, and pocket knife on key ring (Your S2290, E5180503)

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- K1 Control swab (Your S2011, E5182262)
- K2 Control scissors and vial (Your S2016, E5182254)
- K3 Buccal swab from [REDACTED] (FBI ERT personnel for elimination) (Your G-17, E5182303)
- K4 Buccal swab from [REDACTED] (FBI ERT personnel for elimination) (Your G-17, E5182303)

BOYLSTON STREET, SCENE A [REDACTED]

- Q305 Metal fragment (Your S137, E5182165)
- Q306 Cardboard (Your S144, E5182353)
- Q306.1 Tape from Q306 (Your S144, E5182353)
- Q307 Zipper (Your S202, E5182441)
- Q308 One (1) piece of green insulated wire and one (1) piece of gray insulated wire (Your S176, E5182346)
- Q309 Black plastic pieces and wire (Your S177, E5182348)
- Q309.1 Piece of black plastic (Your S177, E5182348)
- Q309.2 Piece of black plastic with screw (Your S177, E5182348)
- Q310 Black plastic piece (Your S179, E5182341)
- Q311 Black plastic piece (Your S180, E5182330)
- Q312 Piece of metal (Your S184, E5182332)
- Q313 Black plastic piece (Your S187, E5182336)
- Q314 Wire pieces (Your S71, E5182180)
- Q315 Gold-colored metal fragment with wire (Your S190, E5182334)
- Q316 Piece of zipper (Your S198, E5182461)

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- Q317 Spring (Your S199, E5182442)
- Q318 Zipper pull and one (1) wire (Your S161, E5182340)
- Q319 Two (2) wire pieces (Your S167, E5180473)
- Q320 Four (4) black plastic pieces and one (1) piece of wire (Your S168, E5182337)
- Q321 Metal fragments (Your S171, E5182343)
- Q322 Clear plastic pieces and detonator fragments (Your S172, E5182347)
- Q323 Black plastic piece (Your S175, E5182338)
- Q324 Metal terminal (Your S183, E5182345)
- Q324.1 Tape from Q324 (Your S183, E5182345)
- Q325 Wire piece with solder (Your S188, E5182335)
- Q326 Metal fragment (Your S189, E5182344)
- Q327 Metal fragment (Your S192, E5182329)
- Q328 Spring (Your S193, E5182339)
- Q329 Metal fragment (Your S195, E5182331)
- Q330 Battery cover (Your S220, E5182450)
- Q330.1 Tape from Q330 and portion of battery cover (Your S220, E5182450)
- Q331 Metal fragment (Your S221, E5182459)
- Q332 Broken filament bulb and housing (Your S222, E5182449)
- Q333 Debris (Your S237, E5182456)
- Q334 Black plastic piece (Your S237, E5182456)
- Q335 Metal fragment (Your S239, E5182454)
- Q336 BBs and unknown material (Your S269, E5180508)

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- Q336.1-Q336.2 Sampling of unknown material from Q336 (Your S269, E5180508)
- Q337 Electronic component (Your S269, E5180508)
- Q338 BB with hair attached (Your S160, E5182463)
- Q338.1 Hair from Q338 (Your S160, E5182463)
- Q339 One (1) piece of green insulated wire and one (1) piece of gray insulated wire (Your S249, E5180519)
- Q340 Debris (Your S264, E5180514)
- Q341 Metal Fragment (Your S265, E5180531)
- Q342 Pieces of fabric (Your S246, E5180517)
- Q343 Black plastic piece (Your S282, E5180534)
- Q344 Three (3) zip tie pieces (Your S283, E5180536)
- Q345 Piece of white plastic (Your S284, E5180537)
- Q346 One (1) zip tie piece (Your S285, E5180538)
- Q347 Black plastic piece (Your S286, E5180539)
- Q348 Zipper piece (Your S287, E5180542)
- Q349 Metal piece (Your S289, E5180541)
- Q350 Gray plastic piece (Your S290, E5180540)
- Q351 Two (2) white plastic pieces (Your S291, E5180535)
- Q352 Swabs of secondary burn site (Your S242, E5180529)
- Q353 Swabs of secondary burn site (Your S242, E5180529)
- Q354 Swabs of secondary burn site (Your S242, E5180529)
- Q355 Wire (Your S208, E5180563)
- Q356 Black fabric (Your S280, E5180533)

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- Q357 BBs (Your S210, E5180573)
- Q358 Pieces of plastic and debris (Your S263, E5180512)
- Q359 White plastic (Your S255, E5180505)
- Q360 Black Velcro (Your S253, E5180510)
- Q361 Backpack pieces (Your S251, E5180527)
- Q362 White plastic (Your S257, E5180511)
- Q363 Piece of zipper (Your S258, E5180509)
- Q364 Pieces of fabric (Your S244, E5180524)
- Q365 Black fabric (Your S273, E5180520)
- Q366 Backpack pieces (Your S268, E5180507)
- Q367 Black plastic (Your S271, E5180526)
- Q368 Backpack pieces (Your S276, E5180518)
- Q369 Plastic and metal debris (Your S262, E5180504)
- Q369.1 Green plastic pieces (Your S262, E5180504)
- Q369.2 Red plastic ring (Your S262, E5180504)
- Q369.3 Metal pieces (Your S262, E5180504)
- Q369.4 Zipper pull tab (Your S262, E5180504)
- Q370 Zipper from backpack (Your S279, E5180532)
- Q371 Two (2) pieces of green insulated wire (Your S245, E5180521)
- Q372 Backpack pieces (Your S108, E5180525)
- Q372.1 BBs from Q372 (Your S108, E5180525)
- Q373 Steel colored ball bearing (Your S158, E5180577)

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- Q374 BBs and metal pieces (Your S270, E5180506)
- Q375 Backpack pieces (Your S250, E5180523)
- Q376 Black material (Your S252, E5180513)
- Q377 Zipper pull, two (2) screws and plastic pieces (Your S166, E5180580)
- Q378 Broken nail (Your S164, E5180582)
- Q379 Black fabric (Your S256, E5180515)
- Q380 Black plastic (Your S254, E5180522)
- Q381 Paper, plastic pieces, fabric and metal pieces (Your S182, E5180576)
- Q382 Round metal object (Your S185, E5182465)
- Q383 BBs and miscellaneous debris (Your S238, E5180581)
- Q383.1 Sampling of unknown material from Q383 (Your S238, E5180581)
- Q384 BBs and miscellaneous debris (Your S266, E5180549)
- Q384.1 Sampling of unknown material from Q384 (Your S266, E5180549)
- Q385 BBs and miscellaneous debris (Your S112, E5182464)
- Q385.1 Sampling of unknown material from Q385 (Your S112, E5182464)
- Q386 BBs and miscellaneous debris (Your S267, E5180552)
- Q386.1 Sampling of unknown material from Q386 (Your S267, E5180552)
- Q387 BBs and miscellaneous debris (Your S248, E5180547)
- Q387.1 Sampling of unknown material from Q387 (Your S248, E5180547)
- Q388 Fabric (Your S274, E5180546)
- Q389 BBs (Your S224, E5180570)
- Q390 Eight (8) pieces of plastic (Your S275, E5182469)

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- Q391 Pieces of fabric, black plastic, and red plastic (Your S169, E5180575)
- Q392 BBs and miscellaneous debris (Your S170, E5180579)
 - Q392.1 Tape from Q392 (Your S170, E5180579)
 - Q392.2 Sampling of unknown material from Q392 (Your S170, E5180579)
- Q393 BBs (Your S277, E5180548)
- Q394 BBs (Your S165, E5180584)
 - Q394.1 Tape form Q394 (Your S165, E5180584)
- Q395 Head of nail and broken screw (Your S159, E5180583)
- Q396 BBs (Your S212, E5180569)
- Q397 Altoids tin, zipper fragment, zip tie and blast debris (Your S236, E5182466)
- Q398 BBs and miscellaneous debris (Your S260, E5182470)
 - Q398.1 Sampling of unknown material from Q398 (Your S260, E5182470)
- Q399 Metal button (Your 1B427, E5180585)
- Q400 Metal piece (Your S186, E5180586)
- Q401 BBs and miscellaneous debris (Your S278, E5180545)
 - Q401.1 Sampling of unknown material from Q401 (Your S279, E5180545)
- Q402 BBs and miscellaneous debris (Your S272, E5180551)
 - Q402.1 Sampling of unknown material from Q402 (Your S272, E5180551)
- Q403 BB (Your S211, E5180571)
- Q404 BBs and miscellaneous debris (Your S162, E5180574)
 - Q404.1 Sampling of unknown material from Q404 (Your S162, E5180574)
- Q405 BBs and debris (Your S181, E5180578)

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Q405.1 Sampling of unknown material from Q405 (Your S181, E5180578)

Q405.2 Tape from Q405 (Your S181, E5180578)

K5 Control forceps (Your S241, E5180528)

K6 Control swab (Your S243, E5180530)

K7 Control swab of

K8 Control swab of

MEDICAL EXAMINER'S OFFICE

Q406 One (1) blue and black cellular phone (Your ME26, E5182490)

Q407 Two (2) memory disks (Your ME26, E5182490)

BOYLSTON STREET, SCENE A

Q408 Backpack pieces (Your S316, E5182523)

Q409 Plastic pieces (Your S321, E5182517)

Q410 Backpack pieces (Your S324, E5182518)

Q411 BBs and backpack pieces (Your S359, E5182514)

Q412 Backpack pieces (Your S314, E5182508)

Q412.1 One (1) BB from Q412 (Your S314, E5182508)

Q413 Blue/green wire (Your S349, E5182499)

Q414 Backpack material (Your S358, E5182512)

Q415 BBs and backpack pieces (Your S354, E5182515)

Q415.1 Sampling of unknown material from Q415 (Your S354, E5182515)

Q416 Wire (Your S342, E5182524)

Q417 Black fabric (Your S335, E5182504)

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- Q418 BBs and miscellaneous debris (Your S355, E5182513)
- Q418.1 Sampling of unknown material from Q418 (Your S355, E5182513)
- Q419 Black plastic pieces (Your S310, E5182503)
- Q420 Connector insulation and screw (Your S318, E5182519)
- Q421 Cardboard (Your S323, E5182516)
- Q422 BBs and miscellaneous debris (Your S319, E5182494)
- Q422.1 Sampling of unknown material from Q422 (Your S319, E5182494)
- Q423 Wire (Your S325, E5182525)
- Q424 Metal piece (Your S331, E5182530)
- Q425 One (1) piece of black plastic (Your S330, E5182526)
- Q426 One (1) piece of glass (Your S336, E5182521)
- Q427 Elastic (Your S329, E5182528)
- Q428 One (1) piece of dark wire (Your S333, E5182529)
- Q429 One (1) piece of white plastic (Your S334, E5182520)
- Q430 One (1) piece of metal (Your S337, E5182522)
- Q431 Cardboard and metal pieces (Your S301, E5182492)
- Q432 BBs, cardboard and backpack pieces (Your S295, E5182491)
- Q433 Cardboard (Your S356, E5182511)
- Q433.1 Tape from Q433 (Your S356, E5182511)
- Q434 BBs and miscellaneous debris (Your S302, E5182493)
- Q434.1 Sampling of unknown material from Q434 (Your S302, E5182493)
- Q435 Black fabric (Your S345, E5182502)

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- Q436 Backpack pieces (Your S299, E5182506)
- Q437 Backpack pieces (Your S312, E5182510)
- Q438 Pieces of green insulated wire, one piece of red insulated wire, and metal pieces (Your S311, E5182505)
- Q438.1-Q438.2 Tape from Q438 (Your S311, E5182505)
- Q439 Black fabric (Your S350, E5182507)
- Q440 Green, red, and black insulated wires and one small electronic component (Your S308, E5182501)
- Q441 Electrical component (Your S346, E5182498)
- Q442 Black plastic (Your S348, E5182500)
- Q443 Small white wire (Your S163, E5182354)
- Q444 Black tape (Your S128, E5182158)
- Q444.1-Q444.2 Tape from Q444 (Your S128, E5182158)
- Q445 Small white piece of plastic (Your S156, E5182352)
- Q446 Pieces of backpack (Your S178, E5182342)
- Q447 Backpack pieces (Your S194, E5180470)
- Q448 Gray plastic (Your S240, E5182447)
- Q449 One (1) screw and washer (Your S216, E5182458)
- Q450 Backpack and cloth pieces (Your S196, E5182452)
- Q450.1 BB from Q450 (Your S196, E5182452)
- Q450.2 Battery cover from Q450 (Your S196, E5182452)
- Q451 Screw and washer (Your S219, E5182444)
- Q452 Backpack pieces (Your S113, E5182453)

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- Q453 One (1) screw and washer (Your S217, E5182460)
- Q454 Black string (Your S213, E5182451)
- Q455 Backpack pieces (Your S234, E5182446)
- Q456 White cloth (Your S218, E5182457)
- Q457 Fabric (Your S235, E5182448)
- Q458 Tape (Your S140, E5182179)
- Q459 Metal piece (Your S223, E5182462)
- Q460 BBs (Your S81, E5182182)
- Q460.1 Tape from Q460 (Your S81, E5182182)
- Q460.1.1 Piece of tape from Q460.1 (Your S81, E5182182)
- Q461 BBs (Your S72, E5182174)
- Q462 Metal piece (Your S197, E5182443)
- Q463 BBs and miscellaneous debris (Your S73, E5182171)
- Q463.1 Sampling of unknown material from Q463 (Your S73, E5182171)
- Q464 Backpack pieces (Your S191, E5180472)
- Q465 Metal fragment (Your S214, E5182455)
- Q466 White plastic (Your S215, E5182445)
- Q467 Backpack pieces (Your S173, E5182333)
- Q467.1 Piece of red plastic from Q467 (Your S173, E5182333)
- Q467.2 Piece of green wire from Q467 (Your S173, E5182333)
- Q468 BBs (Your S77, E5182181)
- Q469 BBs (Your S76, E5182173)

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Q470 BBs (Your S69, E5182177)

Q471 BBs (Your S74, E5182178)

Q472 BBs (Your S68, E5182176)

Q473 BBs (Your S70, E5182175)

Q474 BBs (Your S75, E5182172)

BOYLSTON STREET, SCENE B

Q475 Green wire and nail (Your S2323, E5182497)

Q476 One (1) BB (Your S2324, E5182496)

Q477 Nails and BB (Your S2322, E5182495)

Q478 Three (3) zipper pieces (Your S2094, E5182199)

Q479 Black strap from backpack (Your S2095, E5182198)

Q480 Pieces of fabric and zipper (Your S2140, E5182185)

Q480.1 Tape from Q480 (Your S2140, E5182185)

Q480.2 One (1) BB and one (1) nail from Q480 (Your S2140, E5182185)

Q480.3 White caulk material from Q480 (Your S2140, E5182185)

Q480.4 Cardboard from Q480 (Your S2140, E5182185)

Q480.5 Piece of metal with piece of wire from Q480 (Your S2140, E5182185)

Q481 Clothes (Your S2163, E5182148)

Q482 Clothes and boots (Your S2202, E5182184)

Q483 Five (5) BBs, two (2) nails and metal fragment (Your S2188, E5182207)

Q484 Metal fragment (Your S2109, E5182193)

Q485 Metal knob (Your S2091, E5182197)

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- Q486 Cardboard (Your S2103, E5182196)
- Q486.1 Tape from Q486 (Your S2103, E5182196)
- Q487 BBs and rubber piece (Your S2212, E5182270)
- Q488 Pieces of fabric and paper (Your S2190, E5182205)
- Q488.1 BBs from Q488 (Your S2190, E5182205)
- Q489 BBs with unknown material and one (1) nail (Your S2227, E5182267)
- Q489.1 Sampling of unknown material from Q489 (Your S2227, E5182267)
- Q490 Pieces of fabric (Your S2187, E5182208)
- Q490.1 One (1) BB and one (1) nail from Q490 (Your S2187, E5182208)
- Q491 Debris (Your S2208, E5182325)
- Q492 Two (2) pieces of plastic (Your S2168, E5182290)
- Q493 BBs, nails, pieces of fabric and pieces of plastic (Your S2313, E5182479)
- Q494 Debris (Your S2299, E5180587)
- Q495 BBs with unknown material and two (2) nails (Your S2320, E5182481)
- Q495.1 Sampling of unknown material from Q495 (Your S2320, E5182481)
- Q496 One (1) piece of fabric (Your S2295, E5180502)
- Q497 One (1) piece of metal (Your S2312, E5182483)
- Q498 Miscellaneous debris with BBs (Your S2310, E5182485)
- Q498.1 Earring (Your S2310, E5182485)
- Q498.2-Q498.5 Sampling of unknown material from Q498 (Your S2310, E5182485)
- Q499 One (1) BB and one (1) piece of metal with plastic (Your S2288, E5182478)
- Q500 Pieces of styrofoam and fabric (Your S2318, E5182482)

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- Q501 BBs, nails, plastic and debris (Your S2319, E5180589)
- Q502 One (1) piece of plastic (Your S2260, E5182388)
- Q503 One (1) piece of green insulated wire (Your S2267, E5182378)
- Q504 Swab of mesh #2 (Your S2262, E5182390)
- Q505 One (1) battery (Your S2036, E5182263)
- Q506 One (1) BB (Your S2259, E5180474)
- Q507 One (1) piece of fabric (Your S2232, E5182356)
- Q508 BBs, nails, metal pieces and white caulk material (Your S2256, E5182379)
- Q508.1 Sampling of unknown material from Q508 (Your S2256, E5182379)
- Q508.2 Sampling of unknown material from Q508 (Your S2256, E5182379)
- Q509 Pieces of fabric (Your S2257, E5182382)
- Q510 Pieces of foam and fabric (Your S2235, E5182368)
- Q510.1 Tape from Q510 (Your S2235, E5182368)
- Q511 One (1) BB (Your S2258, E5182381)
- Q512 Pieces of fabric (Your S2239, E5182357)
- Q513 Four (4) BBs (Your S2236, E5182360)
- Q514 BBs with and miscellaneous debris and nails (Your S2276, E5182395)
- Q514.1 Sampling of unknown material from Q514 (Your S2276, E5182395)
- Q515 Miscellaneous debris (Your S2203, E5182265)
- Q515.1 Piece of green wire from Q515 (Your S2203, E5182265)
- Q515.2 Pieces of white plastic, pieces of black plastic, and one (1) piece of green metal from Q515 (Your S2203, E5182265)

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- Q515.3 Unknown material and white caulk material from Q515 (Your S2203, E5182265)
- Q516 BBs with unknown material, nails and pieces of metal (Your S2255, E5182358)
- Q516.1 Sampling of unknown material from Q516 (Your S2255, E5182358)
- Q516.2 Sampling of unknown material from Q516 (Your S2255, E5182358)
- Q517 BBs, nails, pieces of metal and white caulk material (Your S2242, E5182363)
- Q517.1-Q517.2 Sampling of unknown material from Q517 (Your S2242, E5182363)
- Q518 Debris (Your S2241, E5182361)
- Q519 Pieces of fabric (Your S2169, E5182221)
- Q520 One (1) piece of plastic (Your S2196, E5182228)
- Q521 Pieces of fabric (Your S2199, E5182219)
- Q522 Pieces of fabric (Your S2194, E5182211)
- Q523 Fabric with BBs (Your S2189, E5182210)
- Q524 Pieces of fabric (Your S2150, E5182274)
- Q525 Pieces of fabric (Your S2135, E5182223)
- Q526 BBs with unknown material, nails, white caulk material and other fragmentation (Your S2205, E5182268)
- Q526.1 Sampling of unknown material from Q526 (Your S2205, E5182268)
- Q526.2 Sampling of unknown material from Q526 (Your S2205, E5182268)
- Q527 BBs with unknown material, nails, white caulk material and other fragmentation (Your S2191, E5182212)
- Q527.1 Sampling of unknown material from Q527 (Your S2191, E5182212)
- Q527.2 Sampling of unknown material from Q527 (Your S2191, E5182212)
- Q528 One (1) BB (Your S2283, E5182480)

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- Q529 Two (2) pieces of plastic (Your S2293, E5180592)
- Q530 Three (3) BBs and one (1) piece of metal (Your S2294, E5182489)
- Q531 Two (2) pieces of fabric (Your S2298, E5180590)
- Q532 Two (2) BBs (Your S2301, E5182486)
- Q533 BBs, nails and two (2) plastic beads (Your S2303, E5182487)
- Q534 Miscellaneous debris (Your S2305, E5180588)
- Q534.1 White sticker/tag from Q534 (Your S2305, E5180588)
- Q535 BBs with unknown material (Your S2307, E5182484)
- Q535.1 Sampling of unknown material from Q535 (Your S2307, E5182484)
- Q536 BBs with unknown material and five (5) nails (Your S2308, E5180591)
- Q536.1 Sampling of unknown material from Q536 (Your S2308, E5180591)
- Q537 Unknown material (Your S2309, E5182488)
- Q538 BBs with unknown material (Your S2165, E5182149)
- Q538.1 Sampling of unknown material from Q538 (Your S2165, E5182149)
- Q539 Two (2) screws (Your S2172, E5182281)
- Q540 One (1) piece of plastic (Your S2162, E5182269)
- Q541 Pieces of fabric and piece of zipper (Your S2200, E5182273)
- Q542 One (1) BB and one (1) piece of metal jewelry (Your S2185, E5182209)
- Q543 Pieces of fabric and piece of zipper (Your S2201, E5182272)
- Q543.1 Tape from Q543 (Your S2201, E5182272)
- Q544 Metal fragment (Your S2231, E5182275)
- Q545 Key chain with keys and part of car remote (Your S2186, E5182217)

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- Q546 One (1) piece of cardboard and one (1) piece of glass (Your S2177, E5182320)
- Q546.1 Tape from Q546 (Your S2177, E5182320)
- Q547 Key chain with keys and plastic tags (Your S2164, E5182328)
- Q548 One (1) piece of metal (Your S2154, E5182276)
- Q549 Nine (9) BBs, eight (8) nails, one (1) screw and one (1) piece of plastic (Your S2195, E5182214)
- Q550 BBs with unknown material (Your S2167, E5182289)
- Q550.1 Sampling of unknown material from Q550 (Your S2167, E5182289)
- Q551 BBs, one (1) nail and one (1) screw (Your S2151, E5182322)
- Q552 Two (2) pieces of plastic (Your S2193, E5182213)
- Q553 One (1) piece of plastic (Your S2148, E5182318)
- Q554 BBs with unknown material (Your S2088, E5182192)
- Q554.1 Sampling of unknown material from Q554 (Your S2088, E5182192)
- Q555 Fabric and debris (Your S2157, E5182264)
- Q555.1 BB from Q555 (Your S2157, E5182264)
- Q556 Pieces of fabric and pieces of zipper (Your S2131, E5182224)
- Q556.1 Tape from Q556 (Your S2131, E5182224)
- Q557 Pieces of fabric (Your S2100, E5182202)
- Q558 Two (2) pieces of plastic (Your S2077, E5182292)
- Q559 Wire (Your S2328, E5179007)
- K9 Control swab of handbrush and broom (Your S2268, E5182391)
- K10 Control swab (Your S2263, E5182377)
- K11 Control swab (Your S2270, E5182380)

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K12 Control swab of dustpan (Your S2269, E5182389)

MEDICAL EXAMINER'S OFFICE

K13 Fingerprints, palm prints, and footprints of TAMERLAN TSARNAEV (Your ME32, E5179043)

K14 One tube of blood from TAMERLAN TSARNAEV (Your ME31, E5179042)

BOYLSTON STREET, SCENE A

Q560 Small piece of wire (Your S332, E5182527)

Q561 Wire (Your S374, E5179032)

Q562 Two (2) pieces of rusty metal (Your S405, E5179037)

Q563 Metal fragment (Your S366, E5179034)

Q564 Wire (Your S378, E5179020)

Q565 One (1) piece of metal (Your S368, E5179021)

Q566 One (1) piece of rusty metal (Your S406, E5179035)

Q567 Three (3) pieces of wire (Your S404, E5179033)

Q568 Piece of plastic with metal contact (Your S363, E5179016)

Q569 BBs, one (1) piece of plastic and one (1) piece of rubber (Your S362, E5179011)

THE FOLLOWING SPECIMENS WERE RECEIVED AT THE LABORATORY ON APRIL 20, 2013:

BOYLSTON STREET, SCENE A (Near Marathon Sports located at 671 Boylston St.)

Q570 Battery (Your S444, E5181148)

THE FOLLOWING SPECIMEN WAS OBTAINED AT BETH ISRAEL HOSPITAL, BOSTON, MA:

K15 Fingerprints and palm prints of DZHOKHARA A. TSARNAEV (Item # 2H-23, E5180498)

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NE1 IAFIS Record of DZHOKHARA A. TSARNAEV (Item # 2H-22, 1B1051, E5180781)

Date specimens received: April 20, 2013 and April 21, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 23, 2013 AND RECEIVED INTO THE LABORATORY ON THE FOLLOWING DATES; APRIL 20, 2013 AND APRIL 21, 2013. THE ITEMS WERE ASSIGNED LABORATORY NUMBER 130420100 AND EXAMINED IN THE EXPLOSIVES UNIT:

THE FOLLOWING SPECIMENS WERE RECEIVED AT THE LABORATORY ON APRIL 20, 2013:

[REDACTED]

Q571 One (1) Toshiba hard drive SN 13LTZ2XPS WK7 (1B1030, E5181089)

[REDACTED]

Q572 Garmin GPS (1B885, E5182578)

[REDACTED]

Q573 White iPhone (1B1038, E5179205)

Q574 Black iPhone (1B1040, E5179206)

[REDACTED]

Q575 Transmitter, eight (8) batteries, and wires (1B826, E5180946)

Q575.1 Nine (9) pieces of tape from Q575 (1B826, E5180946)

Q576 Pressure cooker pot (1B827, E5180943)

Q577 Metal fragment (1B834, E5180938)

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- Q578 Black plastic (1B830, E5180942)
- Q579 Metal fragment (1B832, E5180940)
- Q580 Metal fragment (1B833, E5180939)
- Q581 Metal fragment (1B829, E5180936)
- Q582 Switch (1B845, E5180944)
- Q582.1 Tape from Q582 (1B845, E5180944)
- Q582.2 Piece of green insulated wire from Q582 (1B845, E5180944)
- Q582.3 Piece of green insulated wire from Q582 (1B845, E5180944)
- Q582.4 Piece of green insulated wire from Q582 (1B845, E5180944)
- Q582.5 Snap connector from Q582 (1B845, E5180944)
- Q582.6 Piece of plastic from Q582 (1B845, E5180944)
- Q583 Metal end cap, metal pipe elbow with metal end cap attached, BBs (Item #1W17, E5181155)
- Q583.1 Tape from Q 583 (Item #1W17, E5181155)
- Q583.2 Tape from Q 583 (Item #1W17, E5181155)
- Q584 Metal end cap, metal pipe nipple with metal end cap attached, BBs (Item #1W21, E5181159)
- Q584.1 Fuse from Q584 (Item #1W17, E5181155)
- Q584.2 Tape from Q 584 (Item #1W21, E5181159)
- Q584.3 Tape from Q 584 (Item #1W21, E5181159)
- Q585 Fuse from Q583 (Item #1W18, E5181156)
- Q586 Metal fragment (1B835, E5180937)
- Q587 Metal fragment (1B831, E5180941)

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- Q588 Pressure cooker pot lid (1B828, E5180945)
- Q589 Document beginning "No. 37..." from inside the computer bag (1B836, E5180947)
- Q589.1 Diploma dated June 8, 2006 from inside the computer bag (1B836, E5180947)
- Q589.2 Black Folder from inside the computer bag (1B836, E5180947)
- Q589.3 Document beginning "Quick enroll..." from inside the computer bag (1B836, E5180947)
- Q589.4 Document beginning "MK103..." from inside the computer bag (1B836, E5180947)
- Q589.5 Document beginning "Phone (617) 349-6630..." from inside the computer bag (1B836, E5180947)
- Q589.6 Pulsar instruction manual from inside the computer bag (1B836, E5180947)
- Q589.7 Page 85 in Q589.6 Pulsar instruction manual from inside the computer bag (1B836, E5180947)

THE FOLLOWING SPECIMEN WAS OBTAINED FROM THE INTERSECTION OF SPRUCE AND LINCOLN, WATERTOWN, MA:

- Q590 Sample of unknown powder



- Q591 Sample of powder from Q583 (Item #1W20, E5181158)
- Q592 Sample of powder from Q584 (Item #1W23, E5181161)

THE FOLLOWING SPECIMEN WAS OBTAINED AT BETH ISRAEL HOSPITAL, BOSTON, MA:

- K16 Buccal swabs from Dzokhara Tsarnaev (Your 1B1021, E5180968)

THE FOLLOWING SPECIMENS WERE RECEIVED AT THE LABORATORY ON APRIL 21, 2013:

THE FOLLOWING SPECIMENS WERE OBTAINED FROM LAUREL ST:

- Q593 9V battery (Your #1W-25, E5180477)

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- Q594 BB's (Your #1W-28, E5179242)
- Q594.1 Sampling of unknown material from Q594 (Your #1W-28, E5179242)
- Q595 BB's (Your #1W-40, E5179254)
- Q595.1 Sampling of unknown material from Q595 (Your #1W-40, E5179254)
- Q596 Rear passenger side floor mat from vehicle, VIN# 1HGCP36828A05017 (Your #1W-37, E5179251)
- Q597 Rear center floor mat from vehicle, VIN# 1HGCP36828A05017 (Your #1W-38, E5179252)
- Q598 Driver's side rear floor mat from vehicle, VIN# 1HGCP36828A05017 (Your #1W-36, E5179250)
- Q599 Black plastic (Your #1W-34, E5179248)
- Q600 Lighter (Your #1W-54, E5179268)
- Q600.1 Lighter (Your #1W-54, E5179268)
- Q601 White lighter (Your #1W-41, E5179255)
- Q602 Metal (Your# 1W-57, E5179271)
- Q603 Pieces of green insulated wire (Your #1W-47, E5179261)
- Q603.1 Tape from Q603 (Your #1W-47, E5179261)
- Q604 Tape (Your #1W-46, E5179260)
- Q605 Hobby fuse (Your #1W-48, E5179262)
- Q606 BBs, pink material, and unknown polymer (Your #1W-49, E5179263)
- Q606.1 Sampling of unknown material from Q606 (Your #1W-49, E5179263)
- Q607 Wire (Your #1W-45, E5179259)
- Q608 Green wire (Your #1W-33, E5179247)
- Q609 Metal fragments (Your #1W-31, E5179245)

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- Q610 Metal fragment (Your #1W-30, E5179244)
- Q611 Metal fragment (Your #1W-32, E5179246)
- Q612 Two pieces of green insulated wire (Your #1W-29, E5179243)
- Q612.1 Tape from Q612 (Your #1W-29, E5179243)
- Q613 Metal fragment (Your #1W-27, E5179241)
- Q614 Metal fragment (Your #1W-39, E5179253)
- Q615 Cardboard (Your #1W-51, E5179265)
- Q616 Cardboard (Your #1W-52, E5179266)
- Q617 Vacuum filter from inside door frame and driver's side rear floor mat (Your #1W-35, E5179249)
- Q618 Vacuum filter from blast seat (Your #1W-53, E5179267)
- Q619 BBs (Your #1W-44, E5179258)
- Q619.1 Sampling of unknown material from Q619 (Your #1W-44, E5179258)
- Q620 Debris (Your #1W-43, E5179257)
- Q621 Scraping from blast seat (Your #1W-58, E5179272)
- Q622 Metal fragment (Your #1W-68, E5179282)
- Q623 Metal fragment (Your #1W-71, E5179285)
- Q624 BBs (Your #1W-69, E5179283)
- Q624.1 Sampling of unknown material from Q624 (Your #1W-69, E5179283)
- Q625 BBs (Your #1W-67, E5179281)
- Q625.1 Sampling of unknown material from Q625 (Your #1W-67, E5179281)
- Q626 BBs, pink material, and unknown material (Your #1W-70, E5179284)

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- Q626.1 Sampling of unknown material from Q626 (Your #1W-70, E5179284)
- Q627 Grey/Black bag (Your #1W-56, E5179270)
- Q627.1 Lighter (Your #1W-56, E5179270)
- Q628 Black bag (Your #1W-55, E5179269)
- Q628.1 Pencil (Your #1W-55, E5179269)
- Q629 Metal fragment (Your #1W-75, E5179289)
- Q630 Metal fragment (Your #1W-86, E5179312)
- Q631 Metal fragment (Your #1W76-, E5179290)
- Q632 BBs, pink material, and unknown material (Your #1W-83, E5179307)
- Q632.1 Sampling of unknown material from Q632 (Your #1W-83, E5179307)
- Q633 BBs (Your #1W73-, E5179287)
- Q634 Metal fragment (Your #1W-99, E5179301)
- Q635 BBs, pink material, and unknown material (Your #1W-72, E5179286)
- Q635.1 Sampling of unknown material from Q635 (Your #1W-72, E5179286)
- Q635.2 Tape from Q635 (Your #1W-72, E5179286)
- Q636 Cardboard (Your #1W-78, E5179292)
- Q637 Scrapings from blast seat (Your #1W-63, E5179277)
- Q638 Swab from blast seat (Your #1W-59, E5179273)
- Q639 Swab from blast seat (Your #1W-65, E5179279)
- Q640 Swab from blast seat (Your #1W-61, E5179275)
- Q641 Wire (Your #1W-80, E5179294)
- Q641.1 Tape from Q641 (Your #1W-80, E5179294)

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- Q642 Metal fragment (Your #1W-87, E5179315)
- Q643 Black tape (Your #1W-97, E5179303)
- Q644 BBs (Your #1W-98, E5179302)
- Q644.1 Sampling of unknown material from Q644 (Your #1W-98, E5179302)
- Q645 Metal fragment (Your #1W-79, E5179293)
- Q646 BBs (Your #1W-85, E5179310)
- Q646.1 Sampling of unknown material from Q646 (Your #1W-85, E5179310)
- Q647 Black tape (Your #1W-102, E5179298)
- Q648 Metal fragment (Your #1W-89, E5179317)
- Q649 Black plastic (Your #1W-103, E5179297)
- Q650 One (1) BB, one (1) screw, one (1) washer and two (2) metal pieces (Your #1W-74, E5179288)
- Q651 Bubble wrap (Your #1W-88, E5179316)
- Q652 BBs (Your #1W-93, E5179309)
- Q652.1 Sampling of unknown material from Q652 (Your #1W-93, E5179309)
- Q653 Metal fragment (Your #1W-77, E5179291)
- Q654 Black plastic (Your #1W-84, E5179308)
- Q655 Metal fragment (Your #1W-95, E5179305)
- Q656 Black tape (Your #1W-101, E5179299)
- Q657 Gray plastic (Your #1W-100, E5179300)
- Q658 Black plastic (Your #1W-94, E5179306)
- Q659 Black plastic (Your #1W-91, E5179313)
- Q660 Black plastic (Your #1W-90, E5179314)


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- Q661 BBs (Your #1W-82, E5179296)
- Q662 BBs (Your #1W-92, E5179311)
- Q662.1 Sampling of unknown material from Q662 (Your #1W-92, E5179311)
- Q663 Metal fragment (Your #1W-81, E5179295)
- Q664 BBs (Your #1W-96, E5179304)
- Q664.1-Q664.2 Sampling of unknown material from Q664 (Your #1W-96, E5179304)
- Q665 Vacuum filter of blast seat (Your #1W-64, E5179217)
- Q666 Vacuum filter of blast seat (Your #1W-62, E5179276)
- K17 Negative control of [REDACTED] gloves and Tyvec (Your #1W-60, E5179274)
- K18 Control swab (Your #1W-66, E5179280)

Date specimens received: April 21, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 25, 2013, RECEIVED INTO THE LABORATORY ON APRIL 21, 2013, ASSIGNED LABORATORY NUMBER 130421100 AND EXAMINED IN THE EXPLOSIVES UNIT:

- 
- Q667 Latex gloves from the tailgate (Your 1B963, E5179064)
 - Q668 Latex glove (Your 1B961, E5179062)
 - Q669 Trace filters (Your 1B972, E5179075)
 - Q670 Allen wrenches (Your 1B945, E5179077)
 - Q671 Latex glove (Your 1B968, E5179073)

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Q672 Receipt (Your 1B965, E5179067)

Q672.1 Receipt (Your 1B965, E5179067)

Q673 Black gloves (Your 1B943, E5179074)

ITEMS FROM RESIDENCE, 410 NORFOLK STREET, APT. 3, CAMBRIDGE, MA:

Q674 Hammer (Your 1B1354, E5179156)

Q674.1 Electric saw (Your 1B1354, E5179156)

Q675 Glass jar with nails and other miscellaneous items (Your 1B1241, E5179083)

Q675.1 Plastic bag of curtain rod brackets (Your 1B1241, E5179083)

Q675.2 Piece of rubber (Your 1B1241, E5179083)

Q675.3 Eight (8) pieces of paper (Your 1B1241, E5179083)

Q675.4 Black plastic piece (Your 1B1241, E5179083)

Q675.5 Piece of plastic (Your 1B1241, E5179083)

Q676 Knife (Your 1B1284, E5179010)

Q677 "PT 85 Blowback" BB type gun, serial #11E08716 (Your 1B1277, E5179109)

Q678 Knife (Your 1B1265, E5179122)

Q679 Tube of GE brand silicon (Your 1B1264, E5179123)

Q680 One (1) drill bit (Your 1B1337, E5179184)

Q680.1 One (1) roll of tape (Your 1B1337, E5179184)

Q680.2 One (1) pair of nail clippers (Your 1B1337, E5179184)

Q680.3 One (1) monkey wrench (Your 1B1337, E5179184)

Q680.4 One (1) socket wrench (Your 1B1337, E5179184)

Q680.5 One (1) wall hanger (Your 1B1337, E5179184)

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- Q681 Glass jar containing screws, keys, and tool heads (Your 1B1336, E5179183)
- Q682 Dremel tool case and attachments (Your 1B1391, E5179187)
- Q682.1 Fourteen (14) screws and one (1) nail (Your 1B1391, E5179187)
- Q683 Yellow metal box (Your 1B1290, E5179186)
- Q683.1 Pliers from Q683 (Your 1B1290, E5179186)
- Q683.2 Wrench from Q683 (Your 1B1290, E5179186)
- Q683.3 Ratchet set from Q683 (Your 1B1290, E5179186)
- Q684 Plastic tub (Your 1B1289, E5179185)
- Q684.1 Hardware (Your 1B1289, E5179185)
- Q684.2 Roll of tape (Your 1B1289, E5179185)
- Q684.3 Three (3) pieces of sand paper (Your 1B1289, E5179185)
- Q684.4 File (Your 1B1289, E5179185)
- Q684.5 Pick with attachment (Your 1B1289, E5179185)
- Q684.6 Voltage Tester (Your 1B1289, E5179185)
- Q684.7 Allen wrench set (Your 1B1289, E5179185)
- Q684.8 Phillips screwdriver (Your 1B1289, E5179185)
- Q684.9 Scraper (Your 1B1289, E5179185)
- Q684.10 Box of screws (Your 1B1289, E5179185)
- Q685 Plastic bin containing miscellaneous cables and cords, batteries (Your 1B1280, E5179106)
- Q685.1 Two (2) page letter (Your 1B1280, E5179106)
- Q685.2 Priority mail shipping tape (Your 1B1280, E5179106)

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- Q685.3 Coupons (Your 1B1280, E5179106)
- Q685.4 Battery packaging (Your 1B1280, E5179106)
- Q685.5 Disc envelope (Your 1B1280, E5179106)
- Q685.5.1 Pro Tools Ignition Pack 2 Pro DVD (Your 1B1280, E5179106)
- Q685.6 Disc Envelope (Your 1B1280, E5179106)
- Q685.6.1 Disc labeled "translated documentation" (Your 1B1280, E5179106)
- Q685.7 Swiss Army knife (Your 1B1280, E5179106)
- Q685.8 Apple charger (Your 1B1280, E5179106)
- Q685.9 Computer mouse (Your 1B1280, E5179106)
- Q685.10 Battery (Your 1B1280, E5179106)
- Q685.11 Battery (Your 1B1280, E5179106)
- Q685.12 Plastic Brookstone wing (Your 1B1280, E5179106)
- Q685.13 Plastic Brookstone wing (Your 1B1280, E5179106)
- Q685.14 Plastic Brookstone wing (Your 1B1280, E5179106)
- Q686 Roll of clear tape (Your 1B1272, E5179116)
- Q687 One (1) flathead screw driver (Your 1B1330, E5179091)
- Q687.1 One (1) flathead screw driver (Your 1B1330, E5179091)
- Q688 Flathead screw driver (Your 1B1274, E5179113)
- Q689 One (1) BB (Your 1B1327, E5179094)
- Q690 Electronic device (Your 1B1328, E5179092)
- Q691 Caulk gun with tube of GE brand silicon (Your 1B1263, E5179124)
- Q691.1 Lid from Q691 (Your 1B1263, E5179124)

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- Q692 Parts removed from "PT 85 Blowback" BB type gun (Q677) (Your 1B1278, E5179108)
- Q693 One (1) roll of silver-colored duct-type tape (Your 1B1268, E5179119)
- Q693.1 One (1) roll of silver-colored duct-type tape (Your 1B1268, E5179119)
- Q694 Battery charger (Your 1B1331, E5179096)
- Q695 Roll of tape (Your 1B1271, E5179115)
- Q696 One (1) object labeled "The Original Cosmic Creation" (Your 1B1238, E5179080)
- Q697 One (1) Silencer brand 500 computer supply power box (Your 1B1391, E5179181)
- Q697.1 Miscellaneous wires (Your 1B1391, E5179181)
- Q697.2 Transformer plug (Your 1B1391, E5179181)
- Q697.3 Cooling fan (Your 1B1391, E5179181).
- Q697.4 One (1) battery pack, one (1) battery and four (4) wire coils (Your 1B1391, E5179181)
- Q697.5 Cloth Silencer bag (Your 1B1391, E5179181)
- Q697.6 Plastic bag (Your 1B1391, E5179181)
- Q697.6.1 3 cords (Your 1B1391, E5179181)
- Q697.7 Power cord (Your 1B1391, E5179181)
- Q698 Expended CO2 cartridge taken from "PT 85 Blowback" BB type gun (Q677) (Your 1B1279, E5179107)
- Q699 Weller brand solder gun case 140/100 watts (Your 1B1267, E5179120)
- Q699.1 Weller customer service manual (Your 1B1267, E5179120)
- Q699.2 Weller brand solder gun (Your 1B1267, E5179120)
- Q700 One (1) Sears Craftsman corded 3/8" drill with drill bit (Your 1B1270, E5179117)
- Q701 One (1) plastic bag (Your 1B1307, E5179171)

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Q701.1 One (1) bottle of Gorilla brand super glue (Your 1B1307, E5179171)

Q702 One (1) bottle of Gorilla brand glue (Your 1B1306, E5179170)

Q703 Black knife (Your 1B1294, E5179191)

Q704 Knife (Your 1B1318, E5179168)

Q704.1 Knife Sheath (Your 1B1318, E5179168)

Q705 Handwritten note with blue ink (Your Item #88, E5179166)

Q706 BBs and metal fragments (Your Item #64, E5179194)

Q707 Cloth bag (Your 1B1305, E5179169)

Q707.1 Towel (Your 1B1305, E5179169)

Q707.2 Shirt (Your 1B1305, E5179169)

Q707.3 Shirt (Your 1B1305, E5179169)

Q707.4 Rag (Your 1B1305, E5179169)

Q707.5 Plastic bag (Your 1B1305, E5179169)

Q707.6 Tools (Your 1B1305, E5179169)

Q707.7 Box cutter from Q707.6 (Your 1B1305, E5179169)

Q707.8 Diagonal cutters from Q707.6 (Your 1B1305, E5179169)

Q707.9 Needle nose pliers from Q707.6 (Your 1B1305, E5179169)

Q708 Composition notebook covers (Your 1B1345, E5179160)

Q708.1 Loose piece of paper from Q708 (Your 1B1345, E5179160)

Q708.1.1-Q708.1.91 Pages from Q708 (Your 1B1345, E5179160)

Q708.1.46.1 Debris from Q708.1.46 (Your 1B1345, E5179160)

Q708.1.47-Q708.1.91 Pages from Q708 (Your 1B1345, E5179160)

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- Q708.2 Blue cover spiral notebook front cover (Your 1B1345, E5179160)
- Q708.2.1-Q708.2.68 Pages and dividers from Q708.2 (Your 1B1345, E5179160)
- Q708.2.69 Blue cover spiral notebook back cover (Your 1B1345, E5179160)
- Q708.3 Top Flight red spiral notebook front cover (Your 1B1345, E5179160)
- Q708.3.1-Q708.3.6 Pages from Q708.3 (Your 1B1345, E5179160)
- Q708.3.6.1 Debris from Q708.3.6 (Your 1B1345, E5179160)
- Q708.3.7-Q708.3.103 Pages from Q708.3 (Your 1B1345, E5179160)
- Q708.3.104 Top Flight red spiral notebook back cover (Your 1B1345, E5179160)
- Q708.4 Mead red spiral notebook covers (Your 1B1345, E5179160)
- Q708.4.1 Letter from Commonwealth of MA from Q708.4 (Your 1B1345, E5179160)
- Q708.4.2 Green piece of paper from Q708.4 (Your 1B1345, E5179160)
- Q708.4.3 Mass Health document from Q708.4 (Your 1B1345, E5179160)
- Q708.4.4-Q708.4.142 Pages from Q708.4 (Your 1B1345, E5179160)
- Q708.5 Bunker Hill Community College pad of paper covers (Your 1B1345, E5179160)
- Q708.5.1-Q708.5.40 Pages from Q708.5 (Your 1B1345, E5179160)
- Q708.5.41 Bunker Hill Community College pad of paper back cover (Your 1B1345, E5179160)
- Q708.6 "Birds" graph paper covers (Your 1B1345, E5179160)
- Q708.6.1-Q708.6.23 Pages from Q708.6 (Your 1B1345, E5179160)
- Q709 KleenBore utility cleaning brush box (Your 1B1320, E5179199)
- Q709.1 KleenBore utility cleaning brush (Your 1B1320, E5179199)
- Q709.2 One (1) package of Winchester cleaning cloth (Your 1B1320, E5179199)

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- Q710 Outers choкетube and gun grease (Your 1B1301, E5179198)
- Q711 Screwdriver set (Your 1B1312, E5179176)
- Q712 KleenBore gun cleaning kit (Your 1B1300, E5179197)
- Q712.1 Plastic bag (Your 1B1300, E5179197)
- Q712.2 Bottle with contents (Your 1B1300, E5179197)
- Q712.3 Brush (Your 1B1300, E5179197)
- Q712.4 Rod with handle (Your 1B1300, E5179197)
- Q712.5 Plastic bag (Your 1B1300, E5179197)
- Q713 Black coat (Your 1B1322, E5179177)
- Q714 Leather bound notebook front and back covers (Your 1B1310, E5179174)
- Q714.1-Q714.69 Pages from Q714 (Your 1B1310, E5179174)
- Q714.69.1 Debris from Q714.69 (Your 1B1310, E5179174)
- Q714.70-Q714.105 Pages from Q714 (Your 1B1310, E5179174)
- Q715 Notebook front and back covers (Your 1B1340, E5179165)
- Q715.1-Q715.118 Pages from Q715 (Your 1B1340, E5179165)
- Q716-Q716.8 "The Sovereign Newspaper" with underlined passages (Your 1B1344, E5179161)
- Q717 Sample 7 swab, remote control (Your 1B1341, E5179164)
- Q718 Sample 10 swab, Honda keys (Your 1B1341, E5179164)
- Q719 Sample 9 swab, Subaru keys (Your 1B1341, E5179164)
- Q720 Sample 8 swab, weight bars (Your 1B1341, E5179164)
- Q721 Sample 6 swab, toilet flush lever (Your 1B1341, E5179164)
- Q722 Sample 5 swab, keypad (Your 1B1341, E5179164)

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- Q723 Sample 4 swab, caulk gun (Your 1B1341, E5179164)
- Q724 Sample 3 swab, top of chair in kitchen (Your 1B1341, E5179164)
- Q725 Tools and miscellaneous items (Your 1B1352, E5179153)
- Q725.1 Gray, polymer ring (Your 1B1352, E5179153)
- Q725.2 Black knob (Your 1B1352, E5179153)
- Q725.3 One (1) spool of green wire and one (1) spool of black wire (Your 1B1352, E5179153)
- Q725.4 One (1) spool of PTFE thread seal tape (Your 1B1352, E5179153)
- Q725.5 Roll of duct tape (Your 1B1352, E5179153)
- Q725.6 Roll of black tape (Your 1B1352, E5179153)
- Q725.7 Tape packaging (Your 1B1352, E5179153)
- Q725.8 Piece of paper towel (Your 1B1352, E5179153)
- Q725.9 One (1) pair of scissors (Your 1B1352, E5179153)
- Q725.10 One (1) wire stripper (Your 1B1352, E5179153)
- Q725.11 Piece of hobby fuse from Q725 (Your 1B1352, E5179153)
- Q725.12 One (1) pair of scissors from Q725 (Your 1B1352, E5179153)
- Q725.13 One (1) pair of scissors from Q725 (Your 1B1352, E5179153)
- Q725.14 One (1) pair of scissors from Q725 (Your 1B1352, E5179153)
- Q725.15 One (1) pair of scissors from Q725 (Your 1B1352, E5179153)
- Q725.16 One (1) screwdriver from Q725 (Your 1B1352, E5179153)
- Q725.17 One (1) screwdriver from Q725 (Your 1B1352, E5179153)
- Q725.18 One (1) screwdriver from Q725 (Your 1B1352, E5179153)

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Q725.19 One (1) screwdriver from Q725 (Your 1B1352, E5179153)
Q725.20 One (1) diagonal cutter from Q725 (Your 1B1352, E5179153)
Q725.21 One (1) diagonal cutter from Q725 (Your 1B1352, E5179153)
Q725.22 One (1) pair of pliers from Q725 (Your 1B1352, E5179153)
Q725.23 One (1) pair of pliers from Q725 (Your 1B1352, E5179153)
Q725.24 One (1) metal can lid with black scorching from Q725 (Your 1B1352, E5179153)
Q726 Box for two-hundred (200) mini-lights (Your 1B1350, E5179151)
Q726.1 Two-hundred (200) mini-lights (Your 1B1350, E5179151)
Q727 BBs (Your 1B1347, E5179158)
Q728 Kershaw 1006 knife (Your 1B1349, E5179150)
Q729 Tools (Your 1B1353, E5179155)
K19 Control sample #1 (Your 1B1342, E5179163)
K20 Suit/glove control (Your 1B1342, E5179163)
K21 Sample 11 swab, blanks (Your 1B1341, E5179164)

Q730 Paper with writing (Your 1B933, E5180995)
Q731 Notebook front cover (Your 1B924, E5179057)
Q731.1-Q731.118 Pages from Q731 (Your 1B924, E5179057)
Q731.119 Notebook back cover (Your 1B924, E5179057)
Q732 Vacuum filter A (Your 1B927, E5180999)
Q733 Vacuum filter B (Your 1B927, E5180999)
Q734 Vacuum filter C (Your 1B927, E5180999)

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Q735 Vacuum filter D (Your 1B927, E5180999)

ITEMS FROM PINE DALE HALL (ROOM 7341) AT UMASS DARTMOUTH:

Q736 Box (Your 1B1567, E5179238)

Q736.1 BBs from Q736 (Your 1B1567, E5179238)

Q736.2 Bag from Q736 (Your 1B1567, E5179238)

Q737 Roll of tape (Your 1B1564, E5179235)

Q738 Handwritten note on graph paper (Your 1B1555, E5179225)

Q739 Two (2) black plastic strips (Your 1B1566, E5179237)

Q740 Black plastic with 8 round holders (Your 1B1570, E5179226)

Q741 BBs (Your 1B1556, E5179227)

Q742 One (1) pocket knife (Your 1B1560, E5179231)

Q742.1 One (1) pocket knife (Your 1B1560, E5179231)

Q743 Power cord with exposed circuit board (Your 1B1551, E5179221)

Q743.1-Q743.4 Tape from Q743 (Your 1B1551, E5179221)

Q744 White Polo baseball cap (Your 1B1550, E5179220)

Q745 ProSeries 6-piece home tool set case (Your 1B1563, E5179234)

Q745.1 Tape measure (Your 1B1563, E5179234)

Q745.2 Pliers (Your 1B1563, E5179234)

Q745.3 Knife (Your 1B1563, E5179234)

Q745.4 Wrench (Your 1B1563, E5179234)

Q745.5 Flathead screwdriver (Your 1B1563, E5179234)

Q745.6 Phillips screwdriver (Your 1B1563, E5179234)

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- Q746 Wires (Your 1B1565, E5179236)
- Q746.1 Wire cutter (Your 1B1565, E5179236)
- Q746.2 Plastic bag (Your 1B1565, E5179236)
- Q746.2.1 Flathead screwdriver (Your 1B1565, E5179236)
- Q746.3 Plastic bag (Your 1B1565, E5179236)
- Q746.3.1 Phillips screwdriver (Your 1B1565, E5179236)
- Q746.4 Plastic bag (Your 1B1565, E5179236)
- Q746.4.1 Pliers (Your 1B1565, E5179236)
- Q746.5 Breadboard box (Your 1B1565, E5179236)
- Q746.5.1 One (1) breadboard (Your 1B1565, E5179236)
- Q746.6 Breadboard box (Your 1B1565, E5179236)
- Q746.7 Paper bearing notations "University of Massachusetts, Dartmouth" (Your 1B1565, E5179236)
- Q746.8 Oscilloscope probe kit bag (Your 1B1565, E5179236)
- Q746.8.1 Oscilloscope probe kit instructions (Your 1B1565, E5179236)
- Q746.8.2 Oscilloscope probe (Your 1B1565, E5179236)
- Q746.8.3 Oscilloscope bag with six (6) parts (Your 1B1565, E5179236)
- Q746.9 Plastic bag (Your 1B1565, E5179236)
- Q746.9.1 Alligator leads (Your 1B1565, E5179236)
- Q746.10 Plastic bag (Your 1B1565, E5179236)
- Q746.10.1 Alligator leads (Your 1B1565, E5179236)
- Q746.11 Plastic bag (Your 1B1565, E5179236)

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Q746.11.1 Alligator leads (Your 1B1565, E5179236)

Q746.12 Plastic bag of alligator lead set (Your 1B1565, E5179236)

Q747 Black jacket Fouk, size large (Your 1B1569, E5179240)

[REDACTED]

Q748 Part of cricket device (Your 1B818, E5182417)

Date specimen received: April 22, 2013

The following specimen was received in the Explosives Unit.

THE FOLLOWING ITEM WAS RECOVERED FROM THE BOSTON BOMBING. THIS ITEM WAS SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 23, 2013, RECEIVED INTO THE LABORATORY ON APRIL 22, 2013, ASSIGNED LABORATORY NUMBER 130422101 AND EXAMINED IN THE EXPLOSIVES UNIT:

THE FOLLOWING SPECIMEN WAS ACQUIRED FROM THE RESUSCITATION ROOM 20 AT BETH ISRAEL HOSPITAL, BOSTON, MA:

Q749 Fragment (Your 1B1012, E5180964)

Date specimens received: April 22, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 23, 2013, RECEIVED INTO THE LABORATORY ON APRIL 22, 2013, ASSIGNED LABORATORY NUMBER 130422100 AND EXAMINED IN THE EXPLOSIVES UNIT:

[REDACTED]

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ACQUIRED FROM BRAINTREE PD:

K22 DNA swabs of [REDACTED]

K23 Fingerprints of [REDACTED]

Date specimens received: April 23, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 23, 2013, RECEIVED INTO THE LABORATORY ON APRIL 23, 2013, ASSIGNED LABORATORY NUMBER 130423010 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM [REDACTED]

Q 751 One (1) pair of Timberland boots (1B2160, E5181182)

Q752 Chromium crusher containing residue (1B2077, E5179460)

Q753 Phillips screwdriver (1B2097, E5179479)

Q754 Leatherman super tool (1B2118, E5179496)

Q755 One (1) flathead screwdriver, one (1) Phillips screwdriver, one (1) pair of scissors, one (1) pair of pliers, one (1) socket wrench (1B2063, E5179446)

Q756 *Principles of Environmental Chemistry* textbook (1B2062, E5179445)

Q756.1- Q756.3 Pages from Q756 (1B2062, E5179445)

Q757 *General Chemistry* textbook (1B2092, E5179474)

Q758 *General Chemistry* textbook (1B2111, E5179493)

Q758.1- Q758.19 Miscellaneous bookmarks and documents with foreign handwriting from Q758 (1B2111, E5179493)

Q758.20- Q758.22 Pages from Q758 (1B2111, E5179493)

Q759 Swab of black table and bench, Room A (1B2166, E5181180)

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- Q760 Swab of kitchen counter tops, Room B (1B2166, E5181180)
- Q761 Swab of air conditioner return, Room A (1B2166, E5181180)
- Q762 Multi-purpose tool (1B2033, E5179510)
- Q763 One (1) roll of solder and one (1) soldering iron (1B2038, E5179516)
- Q764 One (1) pair of pliers, one (1) wrench and six (6) screwdrivers (1B2040, E5179517)
- Q764.1 One (1) pair of pliers (1B2040, E5179517)
- Q764.1.1 Tape from Q764.1 (1B2040, E5179517)
- Q764.2 One (1) pair of pliers (1B2040, E5179517)
- Q765 One (1) pair of scissors and three (3) screwdrivers (1B2042, E5179520)
- Q766 Six (6) screwdrivers (1B2043, E5179521)
- Q767 Swab from B, C, D toolboxes (1B2037, E5179515)
- Q768 Swab from shed of board and floor (1B2035, E5179513)
- Q769 Swab from shed of window and window sill (1B2035, E5179513)
- Q770 Swab from shed of car bumper (1B2035, E5179513)
- K24 Negative control swab (1B2163, E5181181)
- K25 Control swab of [REDACTED] and Tyvek (1B2163, E5181181)
- K26 Control swab of [REDACTED] Tyvek and gloves (1B2163, E5181181)
- K27 Control swab of [REDACTED] Tyvek and gloves (1B2163, E5181181)
- K28 Control swab of [REDACTED] Tyvek and gloves (1B2163, E5181181)
- K29 Negative control swab (1B2034, E5179512)
- K30 Control swab of [REDACTED] gloves and Tyvek (1B2034, E5179512)

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ACQUIRED FROM ALLEY BEHIND [REDACTED]

- Q771 Roll of black electrical tape (1B2044, E5179522)
- Q772 Wires with lamp attached (1B2041, E5179519)
- Q773 One (1) screwdriver, one (1) wrench (1B2036, E5179514)
- Q773.1 One (1) pair of cutters (1B2036, E5179514)

ACQUIRED FROM TRASH CAN BEHIND [REDACTED]

- Q774 Four (4) screwdrivers (1B1972, E5179509)
- Q775 Nine (9) screwdrivers (1B1972, E5179509)
- Q776 Three (3) pliers (1B1972, E5179509)
- Q777 Two (2) wrenches and two (2) pliers (1B1972, E5179509)
- Q778 One (1) Phillips head screwdriver (1B1973, E5179511)

ACQUIRED FROM SIDEWALK IN FRONT OF [REDACTED]

- Q779 Three (3) pieces of black tape (S465, E5182712)

Date specimens received: April 23, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 25, 2013, RECEIVED INTO THE LABORATORY ON APRIL 23, 2013, ASSIGNED LABORATORY NUMBER 130423011 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM PINE DALE HALL (ROOM 7341) AT UMASS DARTMOUTH:

- Q780 Big Snow Pyrotechnics (1B1544, E5179214)
- Q780.1 Single tube from Q780 (1B1544, E5179214)
- Q780.1.1 Powder sample from Q780.1 (1B1544, E5179214)

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Q780.1.2 Powder sample from Q780.1 (1B1544, E5179214)

Q780.1.3 Powder sample from Q780.1 (1B1544, E5179214)

Q780.1.4 Powder sample from Q780.1 (1B1544, E5179214)

Q780.1.5 Powder sample from Q780.1 (1B1544, E5179214)

Q780.1.6 Powder sample from Q780.1 (1B1544, E5179214)

Q780.1.7 Powder sample from Q780.1 (1B1544, E5179214)

Date specimens received: April 23, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 25, 2013, RECEIVED INTO THE LABORATORY ON APRIL 23, 2013, ASSIGNED LABORATORY NUMBER 130423012 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM THE INTERSECTION OF LINCOLN AND SPRUCE, WATERTOWN, MA:

Q781 Plastic container and hobby fuse (E5182413)

Q781.1 Sample of fuse from Q781 (E5182413)

Q781.2 Powder from Q781 (E5182413)

Q781.3 Tape from Q781 (E5182413)

Q781.3.1 Piece of tape from Q781.3 (E5182413)

Q782 Hobby fuse (E5182415)

Q783 BB and powder (E5182416)

Q784 Powder from 90 degree elbow device #1 (1W19, E5181157)

Q785 Powder from coupler device #2 (1W22, E5181160)

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Q786 Powder removed from plastic container (E5182414)

Date specimens received: April 24, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 27, 2013, RECEIVED INTO THE LABORATORY ON APRIL 24, 2013, ASSIGNED LABORATORY NUMBER 130424003 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM [REDACTED]

Q787 One (1) drill bit case (1B2244, E5179567)

Q787.1 Twenty-one (21) drill bits (1B2244, E5179567)

Q787.1.1 One (1) drill bit (1B2244, E5179567)

Q787.1.2 One (1) drill bit (1B2244, E5179567)

Q787.1.3 One (1) drill bit (1B2244, E5179567)

Q787.1.4 One (1) drill bit (1B2244, E5179567)

Q787.1.5 One (1) drill bit (1B2244, E5179567)

Q787.2 Thirty (30) drill bits (1B2244, E5179567)

Q787.3 One (1) drill bit case (1B2244, E5179567)

Q787.4 Eleven (11) drill bits (1B2244, E5179567)

Q787.5 One (1) drill bit (1B2244, E5179567)

Q787.6 Forty-eight (48) drill bits (1B2244, E5179567)

Q788 Two (2) vise jaw caps (1B2245, E5179568)

Q789 Two (2) vise jaws (1B2243, E5179566)

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Q790 Two (2) vise jaw caps (1B2246, E5179569)

Q791 One (1) hacksaw blade (1B2247, E5179570)

Q791.1 One (1) hacksaw blade (1B2247, E5179570)

Q791.2 One (1) hacksaw blade (1B2247, E5179570)

Q791.3 One (1) hacksaw blade (1B2247, E5179570)

Q791.4 One (1) hacksaw blade (1B2247, E5179570)

Q791.5 One (1) hacksaw blade (1B2247, E5179570)

Q791.6 One (1) hacksaw blade (1B2247, E5179570)

Q791.7 One (1) hacksaw blade (1B2247, E5179570)

Q791.8 One (1) hacksaw blade (1B2247, E5179570)

Q791.9 One (1) hacksaw blade (1B2247, E5179570)

Q791.10 One (1) hacksaw blade (1B2247, E5179570)

Q791.11 One (1) hacksaw blade (1B2247, E5179570)

Q792 One (1) roll of TaegaSeal PTFE tape (1B2248, E5179571)

Q792.1 One (1) roll of TaegaSeal PTFE tape (1B2248, E5179571)

Q792.2 One (1) roll of T.F.E tape (1B2248, E5179571)

Q792.3 One (1) roll of T.F.E tape (1B2248, E5179571)

Q793 Green wire (1B2249, E5179572)

Q794 Green wire (1B2250, E5179573)

Q795 One (1) wire cutter (1B2251, E5179574)

Q795.1 One (1) wire cutter (1B2251, E5179574)

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ACQUIRED FROM [REDACTED]

- Q796 White powder (1B2361, E5179559)
- Q797 Vacuum filter of driver's front seat (1B2362, E5179560)
- Q798 Vacuum filter of front passenger seat (1B2326, E5179560)
- Q799 Vacuum filter of middle one – third of van (1B2326, E5179560)
- Q800 Vacuum filter of back one – third of van (1B2326, E5179560)
- Q801 One (1) black trash bag (1B2363, E5179561)
- Q802 White plastic liner of van (1B2360, E5179558)
- Q803 Swab of floor of van (1B2359, E5179557)
- Q804 Swab of interior of van above wheel wells (1B2359, E5179557)
- K31 Control swab of [REDACTED] ves and Tyvek (1B2358, E5179556)
- K32 Control swab of [REDACTED] gloves and Tyvek (1B2358, E5179556)
- K33 Control swab of [REDACTED] (1B2358, E5179556)

Date specimens received: April 25, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 27, 2013, RECEIVED INTO THE LABORATORY ON APRIL 25, 2013, ASSIGNED LABORATORY NUMBER 130425018 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM [REDACTED]

- Q805 Swab of light switch and doorbell (Item # 8R8, E5754032)
- Q806 Swab of kitchen doorknob (Item # 8R8, E5754032)
- Q807 Swab of white powder in kitchen in plastic container (Item # 8R8, E5754032)

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- Q808 Swab of lids of plastic container in kitchen (Item # 8R8, E5754032)
- Q809 Swab of doorknob in bedroom (Item # 8R8, E5754032)
- Q810 Swab of light switch in bedroom (Item # 8R8, E5754032)
- Q811 Swab of closet doorknob in bedroom (Item # 8R8, E5754032)
- Q812 Swab of suitcases on shelf in bedroom (Item # 8R8, E5754032)
- Q813 Swab of closet doorknob in hall (Item # 8R8, E5754032)
- Q814 Swab of bathroom light switch (Item # 8R8, E5754032)
- Q815 Swab of drains in bathroom (Item # 8R8, E5754032)
- Q816 Swab of bathroom doorknob (Item # 8R8, E5754032)
- Q817 Swab of kitchen sink/microwave (Item # 8R8, E5754032)
- Q818 Powder from grey container in kitchen (Item # 8R9, E5754033)
- Q819 Powder from container in kitchen cabinet (Item # 8R10, E5754034)
- K34 Control swab (Item # 8R11, E5754035)
- K35 Control of [REDACTED] gloves (Item # 8R12, E5754036)

ACQUIRED FROM [REDACTED]

- Q820 Swab of steering wheel (Item # 5V03, E5754021)
- Q821 Swab of driver seat and armrest (Item # 5V03, E5754021)
- Q822 Swab of radio/heat knobs (Item # 5V03, E5754021)
- Q823 Swab of passenger seat (Item # 5V03, E5754021)
- Q824 Swab of passenger floor (Item # 5V03, E5754021)
- Q825 Swab of rear seat (Item # 5V03, E5754021)
- Q826 Swab of rear floor (Item # 5V03, E5754021)

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- Q827 Swab trunk (Item # 5V03, E5754021)
- Q828 Swab of passenger side front door handle (Item # 5V03, E5754021)
- Q829 Swab of rear driver side door (Item # 5V03, E5754021)
- Q830 Trace evidence filter from front drivers quad (Item # 5V06, E5754024)
- Q831 Trace evidence filter from front passenger quad (Item # 5V07, E5754015)
- Q832 Trace evidence filter from rear passenger quad (Item # 5V08, E5754016)
- Q833 Trace evidence filter from rear drivers quad (Item # 5V09, E5754017)
- Q834 Trace evidence filter from trunk (Item # 5V10, E5754018)
- K36 Control swab of [REDACTED] s (Item # 5V01, E5754019)
- K37 Control swab of [REDACTED] gloves (Item # 5V01, E5754019)
- K38 Control swab (Item # 5V02, E5754020)

ACQUIRED FROM [REDACTED]

- Q835 Two (2) attached cardboard tubes with fuse and tape (4W1A, E5754001)
- Q836 Five (5) attached cardboard tubes with fuse and tape (4W1A, E5754001)
- Q837 One (1) piece of wood with cardboard (Item # 4W1D, E5754004)
- Q838 One (1) cardboard tube with fuse (Item 4W1E, E5754005)
- Q839 Seven (7) pieces of wood with cardboard (Item # 4W2C, E5754008)
- Q840 Plastic and paper packaging (Item # 4W3A, E5754010)
- Q841 Two (2) plastic bags and cardboard (4W3B, E5754011)
- Q842 Cardboard packaging (4W3C, E5754012)
- Q843 One (1) cardboard tube with fuse (Item # 4W1B, E5754002)
- Q843.1 Powder from Q843 (Item # 4W1B, E5754002)

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- Q843.2 Powder from Q843 (Item # 4W1B, E5754002)
- Q844 Three (3) cardboard tubes attached with fuse (Item # 4W1B, E5754002)
- Q845 Two (2) cardboard tubes with fuse (Item # 4W1C, E5754003)
- Q846 Two (2) cardboard tubes with fuse (Item # 4W1C, E5754003)
- Q847 Two (2) cardboard tubes with fuse (Item # 4W2A, E5754006)
- Q848 Two (4) cardboard tubes attached with fuse (Item # 4W2A, E5754006)
- Q849 One (1) cardboard tube with fuse (Item # 4W2B, E5754007)
- Q850 Two (2) cardboard tubes with fuse (Item # 4W2B, E5754007)
- Q850.1 Tape from Q850 (Item # 4W2B, E5754007)
- Q851 Three (3) cardboard tubes with fuse (Item # 4W2B, E5754007)
- Q852 Black trash bag, white plastic bags, and tape (Item# 4W2D, E5754009)
- Q852.1 Tape from Q852 (Item# 4W2D, E5754009)

Date specimens received: April 27, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON APRIL 27, 2013, ASSIGNED LABORATORY NUMBER 130427100 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM CRAPO LANDFILL, NEW BEDFORD, MA:

- Q853 Fireworks debris (1B2735, E5182408)
- Q853.1 Fireworks packaging from Q853 (1B2735, E5182408)
- Q854 JanSport brand plaid gray/white backpack (1B2732, E5182409)\
- Q854.1 US Currency totaling \$0.01 (1B2732, E5182409)\

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- Q855 Black trash bag with red ties (1B2738, E5182411)
- Q855.1 Insect trap from Q555 (1B2738, E5182411)
- Q856 Piece of paper (1B2737, E5182410)
- Q856.1 Piece of paper (1B2737, E5182410)
- Q856.2 Piece of paper (1B2737, E5182410)
- Q856.3 Piece of paper (1B2737, E5182410)
- Q856.4 Piece of paper (1B2737, E5182410)
- Q857 One (1) black sock (1B2733, E5182406)
- Q857.1 One (1) black sock (1B2733, E5182406)
- Q857.2 One (1) academic planner (1B2733, E5182406)
- Q857.3 One (1) brochure (1B2733, E5182406)
- Q858 Kingston brand flash drive (1B2734, E5182407)
- Q859 Jar of Vaseline brand petroleum jelly (1B2736, E5182409)

Date specimen received: April 27, 2013

The following specimen was received in the Explosives Unit.

THE FOLLOWING ITEM WAS SENT TO THE FBI LABORATORY BY THE FBI BOSTON DIVISION. THIS ITEM WAS SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON APRIL 27, 2013, ASSIGNED LABORATORY NUMBER 130427101:

K39 Elimination prints for [REDACTED]

Date specimens received: April 29, 2013

The following specimens were received in the Explosives Unit.

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THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON APRIL 29, 2013, ASSIGNED LABORATORY NUMBER 130429002 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM [REDACTED]

- Q860 Swab of bathroom closet doorknob (1B2711, E5179611)
- Q861 Swab of doorknob in hall (1B2711, E5179611)
- Q862 Swab of doorknob inside outer door (1B2711, E5179611)
- Q863 Swab of doorknob into kitchen (1B2711, E5179611)
- Q864 Swab of doorknob in bedroom (1B2711, E5179611)
- Q865 Swab of closet door (1B2711, E5179611)
- Q866 Swab of bedroom foyer door (1B2711, E5179611)
- Q867 Swab of light switch, living area (1B2711, E5179611)
- Q868 Swab of sink in bathroom (1B2711, E5179611)
- K40 Control swab (1B2710, E5179610)
- K41 Control swab of [REDACTED] gloves (1B2708, E5179608)
- K42 Control swab of [REDACTED] s (1B2709, E5179609)

Date specimens received: April 29, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON APRIL 29, 2013, ASSIGNED LABORATORY NUMBER 130429100 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM [REDACTED]

- K43 Buccal swabs of [REDACTED]

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ACQUIRED FROM [REDACTED]

K44

K45

K46

K47

Q869 Swab of interior driver's door handle (1B2832, E5179657)

Q870 Swab of steering wheel (1B2832, E5179657)

Q871 Swab of radio and dash (1B2832, E5179657)

Q872 Swab of interior front passenger's door handle (1B2832, E5179657)

Q873 Swab of interior rear passenger's side door handle (1B2832, E5179657)

Q874 Swab of interior rear door (1B2832, E5179657)

Q875 Swab of exterior rear driver's door (1B2832, E5179657)

Q876 Swab of exterior passenger's door handles (1B2832, E5179657)

K48 Control swab (1B2829, E5179659)

K49 Control swab of tyvek (1B2830, E5179660)

K50 Control swab of tyvek (1B2831, E5179658)

Q877 Unused

Q878 Unused

Q879 Unused

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- Q880 Swab of outside door handle (1B2799, E5179636)
- Q881 Swab of inside door handle (1B2799, E5179636)
- Q882 Swab of chair (1B2799, E5179636)
- Q883 Swab of file cabinet handles (1B2799, E5179636)
- Q884 Swab of desk ledge/desk (1B2799, E5179636)
- Q885 Swab of mouse (1B2799, E5179636)
- Q886 Swab of remote (1B2799, E5179636)
- Q887 Swab of volume control (1B2799, E5179636)
- Q888 Swab of laptop (1B2799, E5179636)
- Q889 Swab of toiletries (1B2799, E5179636)
- Q890 Swab of sunglasses (1B2800, E5179637)
- Q891 Swab of bed frame (1B2800, E5179637)
- Q892 Swab of writing implements (1B2800, E5179637)
- Q893 Swab of dresser handles (1B2800, E5179637)
- Q894 Swab of window (1B2800, E5179637)
- Q895 Swab of wardrobe handles (1B2800, E5179637)
- Q896 Swab of small, tan colored rug (1B2800, E5179637)
- Q897 Swab of large, rust colored rug (1B2800, E5179637)
- K51 Control swab (1B2796, E5179634)
- K52 Control swab (1B2798, E5179635)
- K53 Control swab (1B2798, E5179635)
- K54 Control swab (1B2798, E5179635)

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Date specimens received: May 3, 2013

The following specimens were received in the Explosives Unit.


THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 2, 2013, RECEIVED INTO THE LABORATORY ON MAY 3, 2013, ASSIGNED LABORATORY NUMBER 130503001:



Date specimens received: May 7, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE SENT TO THE FBI LABORATORY BY THE FBI BOSTON DIVISION. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON MAY 7, 2013, ASSIGNED LABORATORY NUMBER 130507007:



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Date specimens received: May 7, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE RECOVERED FROM THE BOSTON BOMBING. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED MAY 6, 2013, RECEIVED INTO THE LABORATORY ON MAY 7, 2013, ASSIGNED LABORATORY NUMBER 130507008 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM 410 NORFOLK STREET, APT. 3, CAMBRIDGE, MA:

- Q898 Swab of TV room (S1, 1B3008, E5756029)
- Q899 Swab of entry table (S2, 1B3008, E5756029)
- Q900 Swab of bureau top (S3, 1B3008, E5756029)
- Q901 Swab of tall bureau top (S4, 1B3008, E5756029)
- Q902 Swab of under bed (S5, 1B3008, E5756029)
- Q903 Swab of side table (S6, 1B3008, E5756029)
- Q904 Swab of bottom shelf (S7, 1B3008, E5756029)
- Q905 Swab of middle shelf (S8, 1B3008, E5756029)
- Q906 Swab of third shelf (S9, 1B3008, E5756029)
- Q907 Swab of computer desk (S10, 1B3008, E5756029)
- Q908 Swab of baseboard (S11, 1B3008, E5756029)
- Q909 Swab of window sill (S12, 1B3008, E5756029)
- Q910 Swab of under bed (S13, 1B3008, E5756029)
- Q911 Swab of bottom of closet (S14, 1B3008, E5756029)
- Q912 Swab of bathroom sink drain (S15, 1B3008, E5756029)
- Q913 Swab of tub drain (S16, 1B3008, E5756029)
- Q914 Swab of window sill (S17, 1B3008, E5756029)

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- Q915 Swab of counter surface (S18, 1B3008, E5756029)
- Q916 Swab of kitchen table, top of tablecloth (S19, 1B3008, E5756029)
- Q917 Swab of kitchen table, under tablecloth (S20, 1B3008, E5756029)
- Q918 Swab of kitchen drain (S21, 1B3008, E5756029)
- Q919 Swab of back door, third floor (S22, 1B3008, E5756029)
- Q920 Swab of first floor rear door, exterior of door (23, 1B3008, E5756029)
- Q921 Swab of second floor, exterior of door (S24, 1B3008, E5756029)
- Q922 Kitchen sink trap drain (1B2979, E5756054)
- Q923 Water from kitchen sink trap drain (1B2980, E5756055)
- Q924 Bathroom sink p-trap (1B2982, E5756057)
- Q925 Water from bathroom sink p-trap (1B2983, E5756058)
- Q926 Box of face masks (1B2976, E5756056)
- Q927 Two (2) BBs on blue plastic magnetic square (1B2990, E5756051)
- Q928 Exacto knife with blue handle (1B2999, E5756047)
- Q929 Plastic container with nails (1B3005, E5756039)
- Q930 Roll of pink paper (1B2993, E5756065)
- Q931 Hacksaw (1B2994, E5756061)
- Q932 Box of black gloves (1B2981, E5756060)
- Q933 Pants with belt (1B2984, E5756062)
- Q934 Dyson brand vacuum canister (1B2978, E5756030)
- Q934.1 BBs from Q934 (1B2978, E5756030)
- Q935 Blue Studio C brand notebook (1B2998, E5756046)

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Q935.1-Q935.87 Pages from Q935 (1B2998, E5756046)

- Q936 Three (3) vacuum filters, yellow/blue carpet (V1-V3, 1B3011, E5756031)
- Q937 One (1) vacuum filter, throw rugs (V4, 1B3011, E5756031)
- Q938 One (1) vacuum filter, carpets toward hallway (V5, 1B3011, E5756031)
- Q939 One (1) vacuum filter, floor under bed (V6, 1B3012, E5756035)
- Q940 One (1) vacuum filter, closet and floor (V7, 1B3012, E5756035)
- Q941 One (1) vacuum filter, closet, floor, and under bed (V9, 1B3014, E5756034)
- Q942 One (1) vacuum filter, rug and floor (V10, 1B3015, E5756036)
- Q943 One (1) vacuum filter, kitchen rug (V11, 1B3016, E5756033)
- Q944 One (1) box of blue gloves (1B2995, E5756063)
- K64 Control swab (C1, 1B2992, E5756028)
- K65 Control swab (C2, 1B2992, E5756028)
- K66 Control swab (C3, 1B2992, E5756028)
- K67 Control swab (C4, 1B2992, E5756028)
- K68 Control swab (C5, 1B3010, E5756027)
- K69 Control swab (C5, 1B3008, E5756029)

Date specimens received: May 8, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE SENT TO THE FBI LABORATORY BY THE FBI TAMPA DIVISION. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED APRIL 22, 2013, RECEIVED INTO THE LABORATORY ON MAY 8, 2013, ASSIGNED LABORATORY NUMBER 130508016:

K70



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K71

Date specimens received: July 26, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE SENT TO THE FBI LABORATORY BY THE MASSACHUSETTS STATE POLICE LABORATORY VIA FBI BOSTON DIVISION. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED JULY 11, 2013, RECEIVED INTO THE LABORATORY ON JULY 26, 2013, ASSIGNED LABORATORY NUMBER 130726007 AND EXAMINED IN THE EXPLOSIVES UNIT:

- Q1274 Unused
- Q1275 Unused
- Q1276 Six (6) vacuum filters from pants with belt, Dzhokhar Tsarnaev (Item 1B3207, E5029901)
- Q1277 Four (4) trace samples from pants with belt, Dzhokhar Tsarnaev (Item 1B3208, E5029902)
- Q1278 Two (2) vacuum filters from shirt, Dzhokhar Tsarnaev (Item 1B3209, E5029903)
- Q1279 Three (3) trace samples from shirt, Dzhokhar Tsarnaev (Item 1B3210, E5029903)
- Q1280 Four (4) vacuum filters from sweatshirt, Dzhokhar Tsarnaev (Item 1B3211, E5029905)
- Q1281 Four (4) trace samples from sweatshirt, Dzhokhar Tsarnaev (Item 1B3212, 5029906)

Date specimen received: August 13, 2013

The following specimen was received in the Explosives Unit.

THE FOLLOWING ITEM WAS SENT TO THE FBI LABORATORY BY THE FBI BOSTON DIVISION. THIS ITEM WAS SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 5, 2013, RECEIVED INTO THE LABORATORY ON AUGUST 13, 2013, ASSIGNED LABORATORY NUMBER 130813015 AND EXAMINED IN THE EXPLOSIVES UNIT:

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Q1282 Vacuum cleaner (1B2088, E5182968)

Q1282.1 U.S. Currency totaling \$0.07 (1B2088, E5182968)

Date specimens received: August 16, 2013

The following specimens were received in the Explosives Unit.

THE FOLLOWING ITEMS WERE SENT TO THE FBI LABORATORY BY THE FBI BOSTON DIVISION. THESE ITEMS WERE SUBMITTED UNDER COVER OF COMMUNICATION DATED AUGUST 8, 2013, RECEIVED INTO THE LABORATORY ON AUGUST 16, 2013, ASSIGNED LABORATORY NUMBER 130816005 AND EXAMINED IN THE EXPLOSIVES UNIT:

ACQUIRED FROM PINE DALE HALL (ROOM 7341) AT UMASS DARTMOUTH:

Q1283 Vacuum filter (1B3241, E5029920)

Q1284 Vacuum filter (1B3240, E5029919)

Q1285 Vacuum filter (1B3239, E5029918)

Q1286 Vacuum filter (1B3238, E5029916)

Q1287 Vacuum filter (1B3237, E5029917)

Q1288 Vacuum filter (1B3236, E5029915)

Q1289 Vacuum filter (1B3235, E5029914)

Q1290 Vacuum filter (1B3233, E5029913)

Q1291 Vacuum filter (1B3234, E5029912)

Q1292 Vent filter (1B3245, E5029924)

Q1293 Eight (8) swabs (1B3244, E5029923)

Q1293.1 One (1) swab from Q1293, right side of bed, S1 (1B3244, E5029923)

Q1293.2 One (1) swab from Q1293, window sill, S3 (1B3244, E5029923)

Q1293.3 One (1) swab from Q1293, right side of desk, S2 (1B3244, E5029923)

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Q1293.4 One (1) swab from Q1293, right side of dresser, S4 (1B3244, E5029923)

Q1293.5 One (1) swab from Q1293, front closet, S5 (1B3244, E5029923)

Q1293.6 One (1) swab from Q1293, right side of shelves, S6 (1B3244, E5029923)

Q1293.7 One (1) swab from Q1293, lower vent, S7 (1B3244, E5029923)

Q1293.8 One (1) swab from Q1293, upper vent, S8 (1B3244, E5029923)

Q1294-Q1310 Seventeen (17) latent lifts (1B3243, E5029922)

K85 Control swab, gloves and suit (1B3244, E5029923)

K86 Control swab, work surface (1B3244, E5029923)

This report contains the final results of the hazardous device examinations performed in the Explosives Unit.

Background Information:

On April 15, 2013 at approximately 2:49pm, two (2) Improvised Explosive Devices (IEDs) exploded near the finish line of the Boston Marathon within a short period of time (measured in seconds) of each other on Boylston Street, Boston, Massachusetts. The first IED exploded near the Marathon Sports store located at 671 Boylston Street, designated Scene A, and the second IED exploded near the Forum Restaurant located at 755 Boylston Street, designated Scene B.

In the early morning hours of April 19, 2013, Watertown Police Department personnel were in a shootout with two (2) subjects in the vicinity of the East Watertown area. Multiple IEDs were used and several exploded during the shootout between the police and the two (2) subjects. After the scene was secured, a search was conducted and additional IEDs were located. The local bomb technicians performed a render-safe procedure (RSP) on those IEDs. A render-safe procedure utilizes tools to remotely break apart an IED, thereby making it safe to approach and collect the evidence.

Conclusions:

Present in the above specimens are the fragmented remains and intact components of multiple improvised explosive devices (IEDs) also known as destructive devices or homemade bombs. The general components of an improvised explosive device (IED) consist of an explosive main charge, a container and a fuzing system. The fuzing system could either be an electrical or non-electrical system.

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The two (2) Radio-Controlled Improvised Explosive Devices (RCIEDs), which exploded near the finish line of the Boston Marathon, were placed in backpacks for concealment and transportation. Specifically, both IEDs consisted of a low explosive main charge, pressure cooker (container) and radio-controlled (RC) hobby car components (electrical fuzing system). The primary means of initiating these devices were the RC hobby car components with the appropriate radio system (transmitter). In addition, both of these IEDs utilized a secondary means of initiation which consisted of cannon fuse also commonly referred to as hobby fuse (non-electrical fuzing system). The IEDs had BBs and nails contained within them for added fragmentation. Fragmentation is used in an IED to increase the lethality against personnel and is indicative of an anti-personnel device.

At the Watertown scene, the fragmented remains of one (1) IED consisted of a low explosive main charge, a pressure cooker (container) and non-electrical fusing system which consisted of hobby fuse. This IED also utilized an additional means of initiation which consisted of wire, a switch and battery (electrical fuzing system). The fragmented remains of the two (2) other IEDs consisted of a low explosive main charge, pipe with end-caps (container) and hobby fuse (non-electrical fuzing system). These three (3) IEDs had BBs contained within them for added fragmentation. Fragmentation is used in an IED to increase the lethality against personnel and is indicative of an anti-personnel device.

In addition, three (3) IEDs were recovered by law enforcement personnel. One (1) IED consisted of a low explosive main charge, a plastic container and hobby fuse (non-electrical fuzing system). The other two (2) IEDs consisted of a low explosive main charge, pipe with end-caps (container) and hobby fuse (non-electrical fuzing system). These two (2) IEDs also had BBs contained within them for added fragmentation. Fragmentation is used in an IED to increase the lethality against personnel and is indicative of an anti-personnel device.

These types of IEDs which are described above would cause property damage, personal injury or death. A detailed description of the components that comprise these IEDs is provided hereafter:

Results of Examinations:

SCENE A

Explosive Main Charge

The chemical analysis of specimens from Scene A revealed the presence of residues from a low explosive that is consistent with a pyrotechnic mixture. When properly ignited by a suitable source of heat, low explosives are designated to deflagrate and generate gases. Properly confined in a container, the gases generate pressure on the container walls and cause an explosion of the container.

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For detailed information on the chemical analysis conducted on the explosive main charge see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Backpack

Present in the following listed specimens are numerous fragmented remains that are consistent with one (1) black-colored "Ful" brand backpack; Specimens Q68, Q95, Q107, Q109 (inner lining w/ logo), Q109.1 (zipper pulls w/ logo), Q170, Q176, Q188, Q193, Q194, Q198 (outer material and inner lining w/ logo), Q200, Q201 (inner lining w/ logo), Q216, Q307, Q316, Q333, Q342 (inner lining w/ logo), Q348, Q356, Q360, Q361, Q363, Q364, Q365, Q366, Q368, Q370, Q372, Q375, Q379, Q380, Q388 (inner lining w/ logo), Q397, Q408, Q410, Q411, Q412, Q414, Q415, Q417, Q432, Q435, Q436, Q437 (zipper pull w/ logo), Q439, Q446 (inner lining w/ logo), Q447, Q450, Q452 (inner lining w/ logo), Q455, Q464 (inner lining w/ logo) and Q467.

The "Ful" brand of backpack is owned by JALP, LLC (Limited Liability Company Tennessee), 1900 Covington Pike, Memphis, Tennessee 38128.

This backpack was used to conceal and transport the IED into an area near the finish line of the Boston Marathon.

Container

Present in the following listed specimens are the fragmented remains that are consistent with one (1) silver-colored, six liter (6L), "Fagor" brand pressure cooker; Specimens Q9, Q10, Q53, Q54, Q67, Q68.1, Q83, Q92, Q101, Q102, Q173, Q174, Q180, Q189, Q196, Q205, Q206, Q321, Q323, Q326, Q327, Q329, Q331, Q334, Q335, Q377, Q425, Q442 and Q465.

This "Fagor" brand pressure cooker is from the "Elite Line" series from FAGOR AMERICA, INC., PO Box 94, Lyndhurst, N.J. 07071. Specimen Q53 which is the base of the pressure cooker has the following descriptive information; "GAS-ELECTRIC VITRO-INDUCTION, INVOX 18/10 FAGOR PLAKSTEEL, 12 : :: LISTED 85M7 PRESSURE COOKER, 0.55/1.05 BAR PS: 1,6 BAR". This 6L pressure cooker was manufactured June 2012.

Fuzing System:

A fuzing system in a destructive device can include components which allow a person placing the device with a time delay to safely leave the scene prior to the functioning of the device. A fuzing system can either be an electrical or non-electrical system. This IED utilized an electrical fuzing system as the primary means of initiation and a non-electrical fuzing system as a secondary means of initiation. These two (2) systems will be addressed below.

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Electrical Fuzing System

The electrical fuzing system consisted of wire, a safe/arming switch, radio-controlled (RC) hobby car components (a receiver and electronic speed controller) used as switches, a power source and initiator.

Wire

Present in the following listed specimens are the fragmented remains of green-insulated, sixteen (16) and eighteen (18) strand copper-colored wire; Specimens Q6, Q106, Q109.2, Q171, Q177, Q188, Q190, Q195, Q215, Q308, Q309, Q319, Q339, Q371, Q438, Q440 and Q467.2

Wire acts as a conductor in the fuzing system to facilitate the flow of an electrical current from a power source to the initiator.

Safe/Arming Switch

Present in Specimens Q67, Q171, Q203, and Q324 are the fragmented remains that are consistent with an illuminated-type toggle switch. Specimen Q203 has the following information on the metal casing of the toggle switch; "OFF, CHINA, CONNECTIONS, POWER LOAD and GROUND" This information is indicative of a toggle switch that is the illuminated-type. No manufacturer of the toggle switch could be identified due to the fragmented remains of the switch.

A safe/arming switch would allow the person who is arming the IED to safely perform that procedure without it functioning. Once this procedure is completed, the device would then be armed and waiting for some type of additional action to occur. This could be performed by an unknowing person or the bomber.

(RC) Hobby Car Receiver

Present in the following listed specimens are the fragmented remains that are consistent with one (1) "FlySky" brand receiver; Specimens Q178, Q211.1, Q308, Q311, Q337 and Q339.

Specimen Q178, which is the receiver circuit-board, has the following descriptive information printed on the board; "ANT, FS-GR3E, THK=1.0mm, VER 2.1, 2011-04-22, ZLH".

(RC) Hobby Car Electronic Speed Controller

Present in the following listed specimens are the fragmented remains that are consistent with one (1) electronic speed controller from an "Exceed-RC" Model 51C809 Rally

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Monster EP radio controlled truck; Specimens Q39, Q68, Q172, Q179, Q182, Q195, Q211, Q310, Q311, Q377, Q391, Q420 and Q440.

Specimen Q39, which is the electronic speed controller circuit-board, has the following descriptive information printed on the backside of board; "KTH-60200-01".

(RC) Hobby Car Body

Present in the following listed specimens are the fragmented remains that are consistent with the black-colored plastic RC hobby car frame; Specimens Q221.1, Q309, Q309.1, Q309.2, Q320, Q343 and Q419.

Power Source

Present in the following listed specimens are the fragmented remains that are consistent with one (1) 7.2V 1800mAh Ni-Mh "Exceed-RC" brand battery pack; Specimens Q7, Q110, Q169, Q188, Q202, Q208, Q210, Q212, Q315, Q325, Q330, Q333, Q341, Q369.2, Q450.2 and Q467.1.

"Exceed-RC" brand is a wholesale distributorship of remote control toys for Egrandbuy, Inc. Corporation California, 321 Vineland Ave., City of Industry, California 91746.

Initiator

Present in Specimen Q369.1 is a plastic fragment that is consistent with a Christmas tree light bulb's plastic casing. The small green-colored piece appears to be part of the inner plastic casing in which the light bulb would be seated.

Christmas tree light bulbs have previously been utilized in IEDs worldwide, whether in the construction of improvised detonators or initiating main charge low explosives. Passing a sufficient electrical current through the filament of the light bulb would cause it to initiate a low explosive or primary explosive.

This fuzing system would require an appropriate radio-controlled (RC) transmitter to function the RC hobby car components, specifically the receiver. The transmitter would send a radio signal (a given frequency) to the receiver which would convert the signal into a suitable electrical control signal. This electrical signal from the receiver would trigger the electronic speed controller and allow an electrical current from the battery to flow to the initiator causing it to heat up and ignite the main charge explosive in the IED.

For information on the analysis conducted on the RC hobby car receiver and electronic speed controller see the Report of Analysis by Michael D. McFarlane, the Cryptologic and Electronic Analysis Unit (CEAU), from the FBI Digital Forensic and Analysis Section, dated April 3, 2014.

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Non-Electrical Fuzing System

Present in specimen Q192 is green-colored cannon fuse also commonly referred to as hobby fuse. The two (2) small fragmented pieces of hobby fuse were taped together with black-colored tape. The manufacturer of this fuse could not be determined.

Hobby fuse consists of fibers woven around either a black powder or perchlorate based core. Hobby fuse is readily available to the general public through numerous online vendors. It burns at a rate of approximately two (2) seconds per inch, although the rate of burning may vary greatly from one roll of fuse to the next.

This fuzing system would require a suitable heat source, like a flame, to ignite the hobby fuse which in turn would burn down the length of the fuse and initiate the main charge explosive in the IED.

For information on the chemical analysis conducted on the hobby fuse see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Fragmentation

Present in the following listed specimens are numerous BBs which are approximately 0.17 inches in diameter. These BBs are consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns; Specimens Q8, Q40, Q54, Q69, Q71, Q96, Q183, Q197, Q 204, Q207, Q208, Q209, Q213, Q214, Q336, Q338, Q357, Q372.1, Q374, Q 383, Q384, Q385, Q386, Q387, Q389, Q392, Q393, Q394, Q396, Q398, Q401, Q402, Q403, Q404, Q405, Q411, Q412.1, Q415, Q418, Q422, Q432, Q434, Q450.1, Q460, Q461, Q463, Q468, Q469, Q470, Q471, Q472, Q473, Q474 and Q569.

The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

Sealant

Present in the following listed specimens are the fragmented remains of material consistent with a sealant type material; Specimens Q8.1, Q209.4, Q214.1, Q336.1, Q383.1, Q384.1, Q385.1, Q386.1, Q387.1, Q392.2, Q398.1, Q401.1, Q402.1, Q404.1, Q405.1, Q415.1, Q418.1, Q422.1, Q434.1 and Q463.1. It was observed that the BBs which were used as fragmentation were embedded within the sealant material. It appears that the sealant material was used to make a fragmentation sleeve on the inside of the container along with holding the BBs in place.

For additional information on the analysis conducted on the sealant material see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated July 24, 2013.

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Cardboard

Present in the following listed specimens are the fragmented remains of material consistent with cardboard; Specimens Q108, Q183, Q185, Q191, Q199, Q199.26-Q199.27, Q199.28-Q199.30, Q214, Q306, Q421, Q431, Q432 and Q433. It was observed that pieces of this cardboard had silver-colored duct tape attached and some pieces of cardboard were circular in shape. Burnt and black scorch marks were observed on various fragmented pieces.

Pink Paper

Present in the following listed specimens are the fragmented remains of material consistent with a pink-colored paper material; Specimens Q8, Q207, Q209 and Q405. This pink paper appeared to be utilized as backing material for the added fragmentation and separated it from the main charge explosive within the IED.

Tapes

Present in the following listed specimens are the fragmented remains of tape consistent with a silver-colored duct tape; Specimens Q79, Q91, Q91.1, Q91.2, Q91.3, Q108.1, Q108.2, Q183.1, Q183.1.2, Q185.1, Q191.1, Q199.1-Q199.25, Q199.31-Q199.34, Q306.1, Q392.1 and Q433.1. Some of the pieces had nominal widths of one and seven-eighths (1 7/8") inches.

Present in the following listed specimens are the fragmented remains of tape consistent with a black-colored duct tape; Specimens Q53.1, Q86, Q104.2, Q444.1, Q458 and Q458.1. Some of the pieces had nominal widths of one (1") inch, one and three-fourths (1 3/4") inches and two (2") inches.

Present in the following listed specimens are the fragmented remains of tape consistent with a clear/colorless packaging tape; Specimens Q183.2, Q209.3, Q394.1, Q405.2, Q460.1 and Q460.1.1. A nominal width could not be determined based on the condition of the fragmented remains.

Present in the following listed specimens are the fragmented remains of tape consistent with a black-colored electrical tape; Specimens Q39.1-Q39.2, Q77, Q104, Q171.1, Q190.1, Q192.1, Q195.1, Q208.1, Q324.1, Q330.1, Q438.1-Q438.2 and Q444.2. Some of the pieces had nominal widths of three-fourths (3/4") of an inch.

The various types of tape listed above were observed within the fragmented remains of the IED. Specifically, the container, the two (2) fuzing systems, cardboard and pink paper had fragmented pieces of tape attached. These types of available tape have been commonly used in the construction of IEDs. The ends of the various pieces of tapes contained in the specimens

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may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

SCENE B

Explosive Main Charge

The chemical analysis of specimens from Scene B revealed the presence of residues from a low explosive that is consistent with a pyrotechnic mixture. When properly ignited by a suitable source of heat, low explosives are designated to deflagrate and generate gases. Properly confined in a container, the gases generate pressure on the container walls and cause an explosion of the container.

For detailed information on the chemical analysis conducted on the explosive main charge see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Backpack

Present in the following listed specimens are numerous fragmented remains that are consistent with one (1) black-colored "Fox" brand backpack; Specimens Q11, Q52, Q116 (zipper pull w/ logo), Q118 (zipper pull w/ logo), Q119, Q121, Q123, Q124 (zippers w/ logo), Q131, Q133, Q135 ("FOX" logo on outer material), Q137 (zipper pull w/ logo), Q141 (material w/ logo), Q143, Q144, Q150 ("FOXRIDERSCO" on carry handle), Q152, Q158, Q223, Q224, Q227, Q228, Q237, Q241, Q248 (zipper pull w/ logo), Q249 (zipper pull w/ logo), Q252, Q254 (zipper pull w/ logo), Q255, Q256, Q285, Q288 (zipper pull w/ logo), Q292, Q294, Q478 (zipper pull w/ logo), Q479, Q480, Q488, Q490, Q491, Q496, Q500, Q507, Q509, Q510, Q512, Q515, Q518, Q521, Q522, Q524, Q525, Q531, Q534, Q541, Q543, Q552, Q553, Q555, Q556 and Q557.

The "Fox" brand of backpack is owned by FOX HEAD Inc., 16752 Armstrong Ave., Irvine, California 92606.

This backpack was used to conceal and transport the IED into an area near the finish line of the Boston Marathon.

Container

Present in the following listed specimens are the fragmented remains that are consistent with one (1) silver-colored, six liter (6L), "Fagor" brand pressure cooker; Specimens

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Q12, Q13, Q14, Q15, Q16, Q44, Q49, Q126, Q140, Q157, Q220, Q299, Q483, Q484, Q516 and Q544.

This "Fagor" brand pressure cooker is from the "Elite Line" series from FAGOR AMERICA, INC. [REDACTED] specimens Q12 and Q16 which are the base of the pressure cooker have the following descriptive information; "GAS-ELECTRIC VITRO-INDUCTION, INVOX 18/10 FAGOR PLAKSTEEL, 12 :::: LISTED 85M7 PRESSURE COOKER, 0.55/1.05 BAR PS: 1,6 BAR". This 6L pressure cooker was manufactured August 2012.

Fuzing System:

A fuzing system in a destructive device can include components which allow a person placing the device with a time delay to safely leave the scene prior to the functioning of the device. A fuzing system can either be an electrical or non-electrical system. This IED utilized an electrical fuzing system as the primary means of initiation and a non-electrical fuzing system as a secondary means of initiation. These two (2) systems will be addressed below.

Electrical Fuzing System

The electrical fuzing system consisted of wire, radio-controlled (RC) hobby car components (a receiver and electronic speed controller) used as switches, a power source and initiator. A safe/arming switch was not required based on how the radio-controlled (RC) hobby car components functioned within this IED.

Wire

Present in the following listed specimens are the fragmented remains of green-insulated, sixteen (16) and eighteen (18) strand copper-colored wire; Specimens Q49, Q51, Q52, Q153, Q230, Q234, Q235.1, Q240, Q241, Q250, Q252, Q475, Q503 and Q515.1.

Wire acts as a conductor in the fuzing system to facilitate the flow of an electrical current from a power source to the initiator.

(RC) Hobby Car Receiver

Present in the following listed specimens are the fragmented remains that are consistent with one (1) "Spektrum SR201" brand receiver; Specimens Q122 and Q122.1.

Specimen Q122, which is the receiver, has the following descriptive information printed on the circuit-board; "IT T-202, Δ94V0, 1230, SR300 RevA, SPEKTRUM 2008". On the backside of the circuit-board there is a small white-colored sticker with the following information; "ST212M". Specimen Q122.1, the black plastic casing, has the following information; "LOT No. 1212".

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(RC) Hobby Car Electronic Speed Controller

Present in the following listed specimens are the fragmented remains that are consistent with one (1) "DURATRAX SPRINT" brand electronic speed controller; Specimens Q41, Q50, Q52, Q117, Q128, Q136, Q138, Q146, Q165, Q218, Q219, Q231, Q236, Q239, Q242, Q244, Q251, Q295, Q480.5 and Q540.

Specimen Q138, which is a black-colored plastic fragmented piece of the electronic speed controller casing, has the following descriptive information; "DURATRAX, PRINT, ESC w/ REVERSE".

Power Source

Present in the following listed specimens are the fragmented remains that are consistent with one (1) 7.2V 3000mAh Nickel-Metal Hydride (Ni-Mh) "Tenergy" brand battery pack; Specimens Q42, Q46, Q48, Q115, Q132, Q171, Q221, Q226, Q303, Q391 and Q570.

The manufacturer of this battery is the Tenergy Corporation, 436 Kato Terrace, Fremont, California 94539.

Initiator

No remains of an initiator were found in the submitted specimens for Scene B. Due to an explosive event of this type which generates high pressures and heat, IED components may or may not be recovered during the processing of the scene.

Christmas tree light bulbs have previously been utilized in IEDs worldwide whether in the construction of improvised detonators or initiating main charge low explosives. Passing a sufficient electrical current through the filament of the light bulb would cause it to initiate a low explosive or primary explosive.

This fuzing system would require an appropriate radio-controlled (RC) transmitter to function the RC hobby car components, specifically the receiver. The transmitter would send a radio signal (a given frequency) to the receiver which would convert the signal into a suitable electrical control signal. This electrical signal from the receiver would trigger the electronic speed controller and allow an electrical current from the battery to flow to the initiator causing it to heat up and ignite the main charge explosive in the IED.

For information on the analysis conducted on the RC hobby car receiver and electronic speed controller see the Report of Analysis by Michael D. McFarlane, the Cryptologic and Electronic Analysis Unit (CEAU), from the FBI Digital Forensic and Analysis Section, dated April 4, 2014.

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Non-Electrical Fuzing System

Present in specimen Q130 is green-colored cannon fuse also commonly referred to as hobby fuse. The two (2) small fragmented pieces of hobby fuse were taped together with black-colored tape. The manufacturer of this fuse could not be determined.

Hobby fuse consists of fibers woven around either a black powder or perchlorate based core. Hobby fuse is readily available to the general public through numerous online vendors. It burns at a rate of approximately two (2) seconds per inch, although the rate of burning may vary greatly from one roll of fuse to the next.

This fuzing system would require a suitable heat source, like a flame, to ignite the hobby fuse which in turn would burn down the length of the fuse and initiate the main charge explosive in the IED.

For information on the chemical analysis conducted on the hobby fuse see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Fragmentation

Present in the following listed specimens are numerous small steel nails which are approximately 0.58 inches in length and BBs which are approximately 0.17 inches in diameter. The BBs are consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns; Specimens Q13, Q41, Q49, Q120, Q129, Q145, Q149, Q156.2, Q157, Q159, Q167.5, Q224, Q225, Q227, Q229, Q243, Q247, Q292, Q475, Q476, Q477, Q480.2, Q483, Q487, Q488.1, Q489, Q490.1, Q493, Q495, Q498, Q499, Q501, Q506, Q508, Q511, Q513, Q514, Q516, Q517, Q523.1, Q526, Q527, Q528, Q530, Q532, Q533, Q535, Q536, Q538, Q542, Q549, Q550, Q551, Q554 and Q555.1.

The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

Sealant

Present in the following listed specimens are the fragmented remains of material consistent with a sealant type material; Specimens Q119.1, Q120.1, Q129.1, Q129.2, Q138, Q139.1, Q139.2, Q145.1, Q149.1, Q149.2, Q157.2, Q157.4, Q292.1, Q480.3, Q489.1, Q495.1, Q498.2, Q498.5, Q508.1, Q508.2, Q514.1, Q515.3, Q516.1, Q516.2, Q517.1, Q517.2, Q526.1, Q516.2, Q527.1, Q527.2, Q535.1, Q536.1, Q537, Q538.1, Q550.1 and Q554.1. It was observed that the nails and BBs which were used as fragmentation were embedded within two (2) types of sealant material. One was white in color and the other was heterogeneous. It appears that the sealant material was used to make a fragmentation sleeve on the inside of the container along with holding the nails and BBs in place.

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For additional information on the analysis conducted on the sealant material see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated July 24, 2013.

Cardboard

Present in the following listed specimens are the fragmented remains of material consistent with cardboard; Specimens Q125, Q151, Q157, Q255, Q276.1, Q293, Q480.4, Q486 and Q515. It was observed that pieces of this cardboard had silver-colored duct tape attached and some pieces of cardboard were circular in shaped. Burnt and black scorch marks were observed on various fragmented pieces.

Pink Paper

Present in the following listed specimens are the fragmented remains of material consistent with a pink-colored paper material; Specimens Q129, Q148, Q167.6, Q229 and Q292. This pink paper appeared to be utilized as backing material for the added fragmentation and separated it from the main charge explosive within the IED.

Tapes

Present in the following listed specimens are the fragmented remains of tape consistent with a silver-colored duct tape; Specimens Q125.1, Q151.1, Q151.1.1, Q157.1, Q158.1, Q162.1, Q255.1, Q276.1, Q291.1, Q293.1-Q293.3, Q296.1, Q301.1-Q301.2, Q480.1, Q486.1 and Q546.1. Some of the pieces had nominal widths of approximately one and seven-eighths (1 7/8") inches.

Present in the following listed specimens are the fragmented remains of tape consistent with a black-colored duct tape; Specimens Q52.5, Q131.1, Q151.2, Q151.2.1, Q162, Q227.1.1, Q296.2 and Q510.1. Some of the pieces had nominal widths of approximately three-fourths (3/4") of an inch and one (1") inch.

Present in the following listed specimens are the fragmented remains of tape consistent with a clear/colorless packaging tape; Specimens Q125.3, Q125.3.1, Q129.3, Q157.3, Q167.6.1 and Q227.1. A nominal width could not be determined based on the condition of the fragmented remains.

Present in the following listed specimens are the fragmented remains of tape consistent with a black-colored electrical tape; Specimens Q42.1-Q42.6, Q44.1-Q44.2, Q52.1-Q52.4, Q130.1, Q146.1, Q231.1, Q283, Q543.1 and Q556.1. Some of the pieces had nominal widths of approximately three-fourths (3/4") of an inch.

The various types of tape listed above were observed within the fragmented remains of the IED. Specifically, the container, the two (2) fuzing systems, cardboard and pink paper had

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fragmented pieces of tape attached. These types of available tape have been commonly used in the construction of IEDs. The ends of the various pieces of tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

WATERTOWN

Pressure Cooker

Explosive Main Charge

The chemical analysis of specimens Q576 and Q588 from Watertown revealed the presence of residues from a low explosive that is consistent with a pyrotechnic mixture. When properly ignited by a suitable source of heat, low explosives are designated to deflagrate and generate gases. Properly confined in a container, the gases generate pressure on the container walls and cause an explosion of the container.

For detailed information on the chemical analysis conducted on the explosive main charge see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Container

Present in the following listed specimens are the fragmented remains that are consistent with one (1) silver-colored, four liter (4L), "Fagor" brand pressure cooker; Specimens Q576, Q578, Q588, Q620, Q649, Q654, Q657, Q658, Q659 and Q660.

This "Fagor" brand pressure cooker is from the "Elite Line" series from FAGOR AMERICA, INC., PO Box 94, Lyndhurst, N.J. 07071. Specimen Q576 which is the base of the pressure cooker have the following descriptive information; "GAS-ELECTRIC VITRO-INDUCTION, INVOX 18/10 FAGOR PLAKSTEEL, 12 :::: LISTED 85M7 PRESSURE COOKER, 0.55/1 05 BAR PS: 1 6 BAR". This 4L pressure cooker was manufactured October 2012.

Fuzing System

A fuzing system in a destructive device can include components which allow a person placing the device with a time delay to safely leave the scene prior to the functioning of the device. This IED utilized an electrical fuzing system and non- electrical fuzing system. These two (2) systems will be addressed below.

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Electrical Fuzing System

The electrical fuzing system consisted of wire, a toggle switch, 9V battery connector, a power source and initiator. This particular fuzing system does not have a time delay. Once the toggle switch is closed (in the "ON" position) current from the power source would flow to the initiator which in turn would ignite the main charge explosive. The toggle switch in this type of configuration could be referred to as a "suicide switch". Once the toggle switch is closed by the bomber the IED functions.

Wire

Present in the following listed specimens are the fragmented remains of green-insulated, eighteen (18) strand copper-colored wire; Specimens Q582.2, Q582.3, Q582.4, Q582.5, Q603, Q608, Q612 and Q641.

Wire acts as a conductor in the fuzing system to facilitate the flow of an electrical current from a power source to the initiator.

Toggle Switch

Present in specimen Q582 is one (1) toggle switch with a red-colored plastic flip-up cover. When the cover is in the down position, it is covering the metal toggle which is in the off position. The following descriptive information is stamped into the silver-colored metal housing; "20A 12V DC, Made in China" and "On - Off". The two (2) screw-connector posts are in position "1" and "2" while position "3" remains empty. This switch is consistent with an automotive toggle switch used for automotive racing applications.

9V Snap Connector

Present in specimen Q582 is one (1) 9V snap connector consisting of one (1) red and one (1) black insulated wire each having seven (7) strands of silver-colored wire.

Power Source

Present in specimen Q593 is one (1) 9 volt battery consistent with an "Energizer" brand 9 volt battery. The battery has the following descriptive information; "9V 03-2017, Alkaline Battery, 9V Size Format 522, 6LR61 6AM6 9V".

Initiator

No remains of an initiator were found in the submitted specimens for the Watertown scene. Due to an explosive event of this type which generates high pressures and heat, IED components may or may not be recovered during the processing of the scene.

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Non-Electrical Fuzing System

However, based on the configuration of the toggle switch (in the "OFF" position) as it was submitted to the laboratory along with IEDs recovered, it is the opinion of this examiner that this IED was potentially initiated by hobby fuse.

No remains of hobby fuse were found. Due to an explosive event of this type which generates high pressures and heat, IED components may or may not be recovered during the processing of the scene. This hobby fuse was more than likely consumed in the explosion.

This type of non-electrical fuzing system would require a suitable heat source, like a flame, to ignite the hobby fuse which in turn would burn down the length of the fuse and initiate the main charge explosive in the IED.

Fragmentation

Present in the following listed specimens are numerous BBs which are approximately 0.17 inches in diameter. These BBs are consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns; Specimens Q594, Q595, Q606, Q619, Q624, Q625, Q626, Q632, Q635, Q646, Q662 and Q664.

The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

Sealant

Present in the following listed specimens are the fragmented remains of material consistent with a sealant type material; Specimens Q594.1, Q595.1, Q606.1, Q619.1, Q624.1, Q625.1, Q626.1, Q632.1, Q635.1, Q644.1, Q646.1, Q652.1, Q662.1 and Q664.1. It was observed that the BBs which were used as fragmentation were embedded within the sealant material. It appears that the sealant material was used to make a fragmentation sleeve on the inside of the container along with holding the BBs in place.

For additional information on the analysis conducted on the sealant material see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated July 24, 2013.

Cardboard

Present in specimens Q615, Q616 and Q636 is a material consistent with cardboard. It was observed that the three (3) pieces of cardboard were circular in shaped. Each of these pieces was approximately nine and three-fourths (9 $\frac{3}{4}$) inches in diameter. Burnt and black scorch marks were observed on the pieces. Each of these pieces also had two (2) irregular

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shaped holes. The position of these holes is consistent to the location of the two (2) manufactured holes in the lid of the 4L "Fagor" brand pressure cooker.

Pink Paper

Present in the following listed specimens are the fragmented remains of material consistent with a pink-colored paper material; Specimens Q594, Q606, Q626, Q632, Q635, Q646 and Q664. This pink paper appeared to be utilized as backing material for the added fragmentation and separated it from the main charge explosive within the IED.

Tapes

Present in specimen Q635.2 is the fragmented remains of tape consistent with a clear/colorless packaging tape. A nominal width could not be determined based on the condition of the fragmented remains.

Present in the following listed specimens are the fragmented remains of tape consistent with a black-colored electrical tape; Specimens Q582.1, Q603.1, Q604, Q612.1, Q641.1, Q643, Q647 and Q656. Some of the pieces had nominal widths of three-fourths (3/4") of an inch.

The various types of tape listed above were observed within the fragmented remains of the IED. Specifically, the electrical fuzing system and pink paper had fragmented pieces of tape attached. These types of available tape have been commonly used in the construction of IEDs. The ends of the various pieces of tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

Pipe Bombs

Explosive Main Charge

The chemical analysis of specimens Q591 (90 degree elbow) and Q592 (coupler) from Watertown revealed the presence of a low explosive that is consistent with a pyrotechnic mixture. When properly ignited by a suitable source of heat, low explosives are designated to deflagrate and generate gases. Properly confined in a container, the gases generate pressure on the container walls and cause an explosion of the container.

For detailed information on the chemical analysis conducted on the explosive main charge see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

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Container

Present in specimens Q583 and Q584 are two (2) pipe fittings each with two (2) internal (square head plug) end caps. Specimen Q583 is a metal 90 degree elbow fitting approximately five (5") inches in length and specimen Q584 is a metal coupling fitting approximately two and one-half (2 1/2") in length. Each has a nominal diameter of two (2") inches in length with a non-manufacturer made hole near the center of each fitting. Inserted in each hole is a length of green-colored hobby fuse. The four (4) internal (square head plug) end caps which are metal each had a nominal diameter of two (2") inches in length. Each of the above items had the following markings on them; "SLK, CHINA, 2". "SLK" is the trademark and is associated with the manufacturer, Beijing Sai Lin Ke Hardware Company, Ltd. in Haidian, Beijing, China. These types of plumbing fittings are commonly available in home improvement stores such as Home Depot and Lowes.

Non-Electrical Fuzing System

Present in specimens Q584.1 (coupler) and Q585 (90 degree elbow) are lengths of green-colored cannon fuse also commonly referred to as hobby fuse. Each of the pipe bombs had a single piece of hobby fuse inserted into it. The manufacturer of this fuse could not be determined.

Hobby fuse consists of fibers woven around either a black powder or perchlorate based core. Hobby fuse is readily available to the general public through numerous online vendors. It burns at a rate of approximately two (2) seconds per inch, although the rate of burning may vary greatly from one roll of fuse to the next.

This fuzing system would require a suitable heat source, like a flame, to ignite the hobby fuse which in turn would burn down the length of the fuse and initiate the main charge explosive in the IED.

For information on the chemical analysis conducted on the hobby fuse see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Fragmentation and Sealant

Present in specimens Q583 and Q584 are BBs consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns. The BBs are approximately 0.17 inches in diameter. They are embedded in material consistent with a sealant type material within the interior of each pipe fitting.

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The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

Tapes

Present in specimens Q583.1 and Q584.2 are two (2) lengths of tape consistent with black-colored electrical tape. These pieces had a nominal width of three-fourths (3/4") of an inch. This tape was wrapped around each pipe fitting and appeared to secure the hobby fuse. The ends of the tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

Present in specimens Q583.2 and Q584.3 are lengths of tape consistent with white-colored tape which is commonly referred to as Teflon tape. Each of the internal (square head plug) end caps which were attached to the pipe fittings had Teflon tape wrapped around its threads.

For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

IED Fragmented RemainsFragmentation (Pipe and BBs)

Present in the following listed specimens are numerous fragmented remains that are consistent with metal pipe fittings; Specimens Q577, Q579, Q580, Q581, Q586, Q587, Q609, Q610, Q611, Q613, Q614, Q622 (internal end cap), Q623, Q629, Q630, Q631, Q634 (internal end cap), Q645, Q648, Q653, Q655 and Q663. Observed on various pieces of fragmentation (Q579, Q613, Q645 and Q648) were small circular indentations within the metal consistent in size with BBs.

Present in specimens Q622 and Q634 are metal end caps consistent with internal (square head plug) end caps which have a nominal diameter of two (2") inches in length. Each of the above items had the following markings on them; "SLK, CHINA, 2". "SLK" is the trademark and is associated with the manufacturer, Beijing Sai Lin Ke Hardware Company, Ltd. in Haidian, Beijing, China. This type of plumbing fitting is commonly available in home improvement stores such as Home Depot and Lowes.

Present in the following listed specimens are numerous BBs which are approximately 0.17 inches in diameter. These BBs are consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns; Specimens Q594, Q619, Q625, Q633, Q644, Q650, Q652 and Q661.

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The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

IED

Explosive Main Charge

The chemical analysis of specimen Q590 from Watertown revealed the presence of a low explosive that is consistent with a pyrotechnic mixture. Also present in the container which had approximately three (3lbs) pounds of the pyrotechnic mixture were numerous lengths of green-colored hobby fuse, specimen Q782. When properly ignited by a suitable source of heat, low explosives are designated to deflagrate and generate gases. Properly confined in a container, the gases generate pressure on the container walls and cause an explosion of the container.

For detailed information on the chemical analysis conducted on the explosive main charge see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Container

Present in specimen Q781 is one (1) plastic container consistent with a "Rubbermaid" brand container. The dimensions of this container with the clear plastic base and white-colored top are approximately nine and three-fourths inches in width by nine and three-fourths inches in length by four and five-eighths inches in height (9 3/4" x 9 3/4" x 4 5/8").

Non-Electrical Fuzing System

Present in specimen Q781.1 is green-colored cannon fuse also commonly referred to as hobby fuse. Three (3) lengths of hobby fuse were taped together and inserted through the container lid. The manufacturer of this fuse could not be determined.

Hobby fuse consists of fibers woven around either a black powder or perchlorate based core. Hobby fuse is readily available to the general public through numerous online vendors. It burns at a rate of approximately two (2) seconds per inch, although the rate of burning may vary greatly from one roll of fuse to the next.

This type of non-electrical fuzing system would require a suitable heat source, like a flame, to ignite the hobby fuse which in turn would burn down the length of the fuse and initiate the main charge explosive in the IED.

For information on the chemical analysis conducted on the hobby fuse see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

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Tape

Present in the specimen Q781.3 and Q781.3.1 are pieces of tape consistent with a black-colored electrical tape. These pieces had a nominal width of three-fourths (3/4") of an inch. The ends of the tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

Transmitter

Present in specimen Q575 is one (1) radio-controlled (RC) transmitter consistent with a FlySky FS-GT3B 2.4 Ghz 3 channel radio-controlled (RC) transmitter. This transmitter was modified from its original configuration. The plastic pistol grip section along with the steering wheel and throttle trigger were removed. The battery box section was secured under the transmitter circuit-board with black-colored tape. The backside of the circuit-board has the following descriptive information; "2012/02/04 FS-GT3B-M REV: 3.1" along with the "FlySky" logo visible in the center of the board.

For information on the analysis conducted on the radio-controlled (RC) transmitter see the Report of Analysis by Michael D. McFarlane, the Cryptologic and Electronic Analysis Unit (CEAU), from the FBI Digital Forensic and Analysis Section, dated April 3, 2014.

Tape

Present in the specimen Q575.1 are pieces of tape consistent with a black-colored electrical tape. These pieces had a nominal width of three-fourths (3/4") of an inch. The ends of the tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

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Backpack

Present in the following listed specimens are small fragmented remains that are consistent with one (1) black-colored "Fox" brand backpack; Specimens Q263.1, Q266.2, Q267.2 and Q268.1.

The "Fox" brand of backpack is owned by FOX HEAD Inc., 16752 Armstrong Ave., Irvine, California 92606.

Container

Present in the following listed specimens are the fragmented remains that are consistent with one (1) silver-colored, six liter (6 L), "Fagor" brand pressure cooker; Specimens Q265.2, Q266.3, Q268.3 and Q269.2.

This "Fagor" brand pressure cooker is from the "Elite Line" series from FAGOR AMERICA, INC., PO Box 94, Lyndhurst, N.J. 07071.

Fragmentation

Present in the following listed specimens are numerous small, steel nails which are approximately 0.58 inches in length and BBs which are approximately 0.17 inches in diameter. The BBs are consistent with copper-colored BBs which are utilized with pump-action or compressed-gas type BB guns; Specimens Q25, Q26, Q35, Q38, Q112, Q257, Q258, Q259, Q260, Q262, Q263, Q264, Q265, Q266, Q266.1, Q267, Q267.1, Q268, Q268.1, Q269 and Q270.

The addition of any type of metal to an IED will add to its potential fragmentation. Fragmentation is also known as shrapnel. The purpose of shrapnel is to enhance the damage caused by the explosion of an IED, particularly against human targets.

Sealant

Present in the following listed specimens are the fragmented remains of material consistent with a sealant type material; Specimens Q260.1, Q268.4 and Q269.4. It was observed that the BBs which were used as fragmentation were embedded within the sealant material. It appears that the sealant material was used to make a fragmentation sleeve on the inside of the container along with holding the BBs in place.

For additional information on the analysis conducted on the sealant material see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated July 24, 2013.

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Cardboard

Present in specimens Q267.2 and Q268.1 are the small fragmented remains of material consistent with cardboard. Burnt and black scorch marks were observed on one of the fragmented pieces. This type of cardboard listed above was observed within the fragmented remains of the IEDs in Scene A and Scene B.

Tapes

Present in specimen Q268.1.2 is the fragmented remains of tape consistent with a silver-colored duct tape. A nominal width could not be determined based on the condition of the fragmented remains.

Present in specimens Q268.1.1 and Q268.1.1.1 are the fragmented remains of tape consistent with a clear/colorless packaging tape. A nominal width could not be determined based on the condition of the fragmented remains.

The two (2) types of tape listed above were observed within the fragmented remains of the IEDs in Scene A and Scene B. Specifically, the container, cardboard and pink paper had fragmented pieces of tape attached. These types of available tape have been commonly used in the construction of IEDs. The ends of the various pieces of tapes contained in the specimens may be suitable for end-matching if similar tapes are recovered during the course of the investigation.

For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

SEARCH SITES

[REDACTED]

Present in specimens Q667 and Q668 are latex gloves found in the [REDACTED]. The chemical analysis of these specimens revealed the presence of a low explosive that is consistent with a pyrotechnic mixture.

For information on the chemical analysis conducted on the latex gloves see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Present in specimen Q672.1 is a sales receipt "#1567" from "RC Cars of Boston" dated "4/08/13 2:28 PM". The store location is at [REDACTED]. On the receipt one item was purchased which is as follows; "Item# 26023, SPM 2300, \$64.99". This item is a "Spektrum DX2E" brand handheld remote control transmitter.

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410 Norfolk St., Apt. 3, Cambridge, MA

Sealants and Adhesives

Present in specimen Q679 is one (1) tube of sealant consistent with "GE PREMIUM WATERPROOF SILICONE" brand of clear sealant. The tip of the sealant tube is not cut open. The tube length is approximately eight and one-half (8 ½").

Present in specimen Q691 is one (1) tube of sealant consistent with "GE SUPREME SILICONE" brand of clear sealant which is inserted into a "WORKFORCE" brand blue-colored caulking gun. The tip of the sealant tube has been cut open. The tube length is approximately eight and one-half (8 ½").

Present in specimen Q701.1 is one (1) small plastic bottle (Net. Wt. 20g) of an adhesive consistent with "Gorilla" brand super glue.

Present in specimen Q702 is one (1) small plastic bottle (2 fl. oz.) of an adhesive consistent with "Gorilla Glue" brand glue.

For additional information on the analysis conducted on the sealant and adhesive material see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated July 24, 2013.

Tape

Present in specimens Q684.2, Q686 and Q695 are three (3) rolls of tape consistent with "COHERE" brand clear packaging tape and each roll has a nominal width of one and seven-eighths (1 7/8") inches.

Present in specimens Q693, Q693.1 and Q725.5 are three (3) rolls of tape consistent with silver-colored duct tape. Specimen Q693 which is consistent with "NASHUA" brand tape has a nominal width of one and seven-eighths (1 7/8") inches. Specimen Q693.1, an unknown brand, has a nominal width of two and seven-eighths (2 7/8") inches. Specimen Q725.5 which is consistent with "ACE" brand tape has a nominal width of one and seven-eighths (1 7/8") inches.

Present in specimen Q725.6 is one (1) roll of tape consistent with "GORILLA TAPE" brand black-colored duct tape with a nominal width of one (1") inch.

Present in specimen Q725.4 is one (1) roll of white-colored tape consistent with polytetrafluoroethylene (PTFE) tape and has a nominal width of one-half (1/2") of an inch. It is housed in a red and white-colored plastic casing and is commonly referred to as Teflon tape. On the red-colored plastic casing is the following descriptive information; "PTFE THREAD SEAL TAPE, MIL SPEC T-27730A, ½" x 520", MADE IN CHINA".

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For additional information on the analysis conducted on the various types of tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

Pink Paper

Present in specimen Q930 is one (1) large roll of pink-colored paper approximately four and five-eighths (4 5/8") inches in diameter and approximately three feet and three-sixteenths of an inch (3' 3/16") in length. This roll of paper is commonly available in home improvement stores such as Home Depot and Lowes. It is sold as red rosin paper and found in the paint and flooring sections of those stores.

Pressure Cooker

Present in specimen Q725.1 is one (1) grey-colored, flexible ring consistent with a silicone/rubber-type gasket. It has an outer diameter of approximately nine and five-eighths (9 5/8") in length. Observed on the inner portion of the ring is the following; "FAG-009 FAG-125" with additional symbols. In the Fagor Elite Pressure Cooker User's Manual, this item is referred to as a silicone gasket. It is positioned around the underside of the lid to provide an air tight seal.

Present in specimen Q725.2 is one (1) black-colored plastic knob which is approximately one and one-half (1 1/2") inches in diameter and approximately two and three-sixteenths (2 3/16") inches in height. In the Fagor Elite Pressure Cooker User's Manual, this item is referred to as the operating valve. It has two (2) pressure settings, a steam release and an unlock position.

BBs

Present in specimens Q689, Q706, Q727, Q927 and Q934.1 are numerous copper-colored BBs approximately 0.17 inches in diameter.

Nails

Present in specimen Q675 are numerous small metal nails in a glass jar with the following label "CAINS Since 1901, Crispy Whole Pickles, Kosher Dill". These nails are approximately 0.58 inches in length.

Hobby Fuse

Present in specimen Q725.11 is a length of green-colored hobby fuse.

Hobby fuse consists of fibers woven around either a black powder or perchlorate based core. Hobby fuse is readily available to the general public through numerous online

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vendors. It burns at a rate of approximately two (2) seconds per inch, although the rate of burning may vary greatly from one roll of fuse to the next.

For information on the chemical analysis conducted on the hobby fuse see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

Christmas Tree Lights

Present in specimens Q726 and Q726.1 is one (1) small box and Christmas tree lights. The red-colored box had the following descriptive information; "200 MINI LIGHTS, MULTI LIGHTS GREEN WIRE". These lights are distributed by FAMILY DOLLAR SERVICES, INC., CHARLOTTE, NC 28201 USA and made in China. Internally, the green-colored insulated wire consisted of sixteen (16) individual copper-colored strands of wire. Observed were three (3) bundles of fifty (50) lights for a total of one hundred and fifty (150) lights present. At the end of one of the bundle of lights, two (2) green-colored wires were cut and fifty (50) lights were missing.

Metal Can Lid

Present in specimen Q725.24 is one (1) metal can lid approximately three and one-eighths (3 1/8") inches in diameter. Observed in the middle of this lid are burnt and black scorching marks. The chemical analysis of specimen Q725.24 revealed the presence of residues from a low explosive that is consistent with a smokeless powder.

For information on the chemical analysis conducted on the metal can lid see the FBI Laboratory Report of David A. McCollam, Explosives Unit, dated May 12, 2014.

[REDACTED]

Tape

Present in specimen Q737 is one (1) roll of tape consistent with silver-colored duct tape with a nominal width of two (2") inches.

BBs

Present in specimens Q 736.1 and Q741 are numerous copper-colored BBs approximately 0.17 inches in diameter.

White Hat

Present in specimen Q744 is one (1) white-colored baseball-style hat. Each side of this hat had the number three (3) which is black and gold in color. On the front of the hat is a

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black-colored "POLO" logo and on the back of the hat is the following; "POLO RALPH LAUREN, MCMLXVII".



Tape

Present in specimens Q792, Q792.1, Q792.2 and Q792.3 are four (4) rolls of white-colored tape consistent with polytetrafluoroethylene (PTFE) tape and have nominal widths of one-half (1/2") of an inch, three-fourths (3/4") of an inch and one (1") inch. They are housed in a white-colored plastic casing and are commonly referred to as Teflon tape. Two (2) rolls are "TaegaSeal" brand tape and the two (2) other rolls have the following information: "T.F.E. Made in U.S.A.".

For additional information on the analysis conducted on the tape see the FBI Laboratory Report of Andria Mehlretter, Chemistry Unit, dated December 17, 2013.

COMPARISON

The nails and BBs which were recovered from Scene A, Scene B, Watertown and the Hospital/Medical Examiner's Office are dimensionally consistent with nails and BBs recovered from 410 Norfolk St., Apt. 3 and the Dorm Room.

In the three (3) pressure cooker IEDs, it appears that the operating valves and silicone gaskets were removed in the construction of the IEDs. An operating valve and a silicone gasket from a "Fagor" brand pressure cooker were recovered from 410 Norfolk St., Apt. 3.

A roll of silver-colored duct tape (specimen Q725.5) recovered from 410 Norfolk St., Apt. 3 is consistent to tape recovered from Scene A, Scene B and the Medical Examiner's Office.

A roll of black-colored duct tape (specimen Q725.6) recovered from 410 Norfolk St., Apt. 3 is consistent to tape recovered from Scene A and Scene B.

The black-colored electrical tape containing a black adhesive component which was recovered from Scene A, Scene B and Watertown was consistent between scenes.

The rolls of clear/colorless packaging tape (specimens Q684.2, Q686 and Q695) recovered from 410 Norfolk St., Apt. 3 are consistent with tape recovered from Scene A, Scene B, Watertown and the Medical Examiner's Office.

The tube of sealant (specimen Q691) recovered from 410 Norfolk St., Apt. 3 is consistent with colorless polymers recovered from Scene A, Watertown and the Medical Examiner's Office.

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The rolls of PTFE tape (specimens Q792, Q792.1, Q792.2 and Q792.3) from the MIT machine shop and the roll of PTFE tape (specimen Q725.4) from 410 Norfolk St, Apt 3 could not be compared to the recovered PTFE tape used in the pipe bombs from Watertown due to its condition.

The representative samples of the green-colored insulated wire recovered from Scene A, Scene B and Watertown were analyzed and are consistent chemically between scenes. Scene B and Watertown are also physically consistent with each having eighteen (18) individual strands of copper-colored wire. Scene A had sixteen (16) individual strands of copper-colored wire.

Based on an external testing agency, the pink-colored paper material recovered in Scene A, Scene B and Watertown "closely match" the roll of pink-colored paper from 410 Norfolk St., Apt. 3.

For additional information on the analysis conducted on the above mentioned types of tape, sealant and adhesive materials or wire insulation see the FBI Laboratory Reports of Andria Mehlretter, Chemistry Unit, dated December 17, 2013 and July 24, 2013.

For additional information on the analysis conducted on the pink-colored paper see the IPS Testing Report of Walter J. Rantanen, Technical Leader - Fiber Science, dated May 20, 2014.

OTHER SUBMITTED SPECIMENS

For specimens that were not addressed above in the "Results of Examinations" section, those items were either analyzed by other forensic disciplines or possessed no relevance to the design/functioning of the IED. For this reason, no detailed examinations were conducted on them related to explosives or hazardous devices.

Methods:

The methods utilized during the analysis of the specimens included examination of photographs, visual inspection, physical measurements, comparisons of observable physical characteristics and reviews of references.

Interpretations and Limitations:

Due to the absence or alterations of specific manufacturer or other unique markings on items of evidence, conclusive identification of the source on an item may not always be effected in every case. Conclusive determination of the exact design and functioning of a

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rendered safe or disassembled improvised explosive device may not be effected in every case due to the conditions of the components.

The explosion and/or fire resulting from the functioning of an improvised or incendiary device can cause extensive damage, such as fragmentation, charring or other severe alterations to items of evidence. Due to the destructive nature of these types of energetic events, conclusive determinations as to the recognition and identification of specific device components, as well as the exact design and functioning of the device, may not always be effected in every case.

Remarks:

This report provides the final results of the device examinations performed in the Explosives Unit on the submitted specimens. For questions about the content of this report, please contact this examiner. You will be advised of additional examination results from the other forensic disciplines under separate reports. The supporting records for the opinions and interpretations expressed in this report are retained in the FBI files.

Additionally, for questions about the status of your submission, including any remaining forensic examinations, please contact Request Coordinator Edward S. Knapp Jr. at [REDACTED]

The submitted specimens will be returned under separate cover via registered mail.

Edward S. Knapp Jr.
[REDACTED]

This report contains the opinions/interpretations of the examiner(s) who issued the report.